

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark OfficeAtty. Docket No.  
A36115 PCT USA  
069225.0164Serial No.  
To be assigned

107501276

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)Applicant(s)  
de Boer et al.Filing Date  
(Herewith) July 9, 2004Group  
To be assigned**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.	Date	Name	Class	Sub class	Filing Date if Appropriate
	6 1 3 4 0 0 3	October 17, 2000	Boppart et al.			
	5 3 1 7 3 8 9	May 31, 1994	Hochberg et al.			
	6 1 4 1 5 7 7	October 31, 2000	Delfyett et al.			

**FOREIGN PATENT DOCUMENT**

Document No.	Date	Country	Class	SubClass	Translator Yes No

\*\* References cited in International Search Report.

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

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Johannes F. de Boer et al.

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**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
	2	3	3	9	7	5	4	January 25, 1944	P.H. Brace			
	4	6	0	1	0	3	6	July 15, 1986	Faxvog et al			
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	4	8	6	8	8	3	4	September 19, 1989	Fox et al			
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	5	6	0	1	0	8	7	February 11, 1997	Richards-Kortum et al			
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	6	1	1	1	6	4	5	August 29, 2000	Tearney et al			
	6	1	1	7	1	2	8	September 12, 2000	Kenton W. Gregory			

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	6	1	2	0	5	1	6	September 19, 2000	Selmon et al			
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	6	5	5	2	7	9	6	April 22, 2003	Magnin et al			
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2003	0	0	2	3	1	5	3	January 30, 2003	Izatt et al			
2003	0	2	3	6	4	4	3	December 25, 2003	Cespedes et al			

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4	3	0	9	0	5	6		September 22, 1994	Germany				
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0	2	5	4	0	2	7		July 11, 2002	WIPO				

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

			"High Resolution in Vivo Intra-Arterial Imaging with Optical Coherence Tomography" by Fujimoto et al., in the Official Journal of the British Cardiac Society, Vol. 82, pages 128-138 Heart - 1999,										
			"Optical Coherence Tomography" by D. Huang et al., in SCIENCE, Vol. 254, pages 1178-1181, November, 1991										

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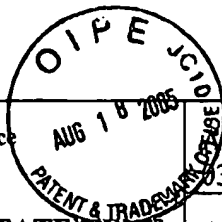
			"High-Speed Phase -and Group Delay Scanning with a Grating Based Phase Control Delay Line" by Tearney, et al., in <u>Optics Letters</u> , Vol. 22, Pages 1811-1813, December, 1997
			"In Vivo Video Rate Optical Coherence Tomography" by Rollins, et al., in the <u>Optics Express</u> , Vol. 3, pages 219-229, September, 1998
			High Speed Fiber-Based Polarization-Sensitive Optical Coherence Tomography of in Vivo Human Skin" by Saxer, et al., in the <u>Optical Society of America</u> , Vol. 25, pages 1355-1357, September, 2000
			"3000 Times Grating Compress or with Positive Group Velocity Dispersion" by Oscar Eduardo Martinez, in the <u>IEEE</u> , Vol. QE-23, pages 59-64, January, 1987
			"Image Enhancement in Optical Coherence Tomography Using Deconvolution" by Kulkarni, et al., in the <u>Electronics Letters</u> , Vol. 33, pages 1365-1367, July, 1997
			"Signal Processing for Improving Field Cross-Correlation Function in Optical Coherence Tomography" by Bashkansky, et al., in the <u>Optics &amp; Photonics News</u> , Vol. 9, pages 8137-8138, May, 1998
			"Phase-Domain Processing of Optical Coherence Tomography Images" by Yung, et al., in the <u>Journal of Biomedical Optics</u> , Vol. 4, pages 125-136, January, 1999
			"In Vivo Endoscopic Optical Biopsy with Optical Coherence Tomography" by Tearney, et al., in the <u>SCIENCE</u> , Vol. 276, June, 1997
			"In Vivo Ultrahigh-Resolution Optical Coherence Tomography" by W. Drexler et al., <u>Opt. Lett.</u> Vol. 24, pp. 1221-3, Sept. 1999

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2587**U.S. PATENT DOCUMENTS**

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	6 6 8 5 8 8 5	February 3, 2004	Nolte et al.			
	6 6 8 7 0 0 7	February 3, 2004	Meigs			
2003	0 0 2 6 7 3 5	February 6, 2003	Nolte et al.			
2004	0 1 6 6 5 9 3	August 26, 2004	Nolte et al.			

**FOREIGN PATENT DOCUMENT**

Document No.	Date	Country	Class	SubClass	Translator Yes No
0 3 0 2 0 1 1 9	March 13, 2003	WIPO			

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

	Nicusor V. Iftimia et al., "A Portable, Low Coherence Interferometry Based Instrument for Fine Needle Aspiration Biopsy Guidance" Accepted to Review of Scientific Instruments, 2005
	Abbas, G.L., V.W.S. Chan et al., "Local-Oscillator Excess-Noise Suppression for Homodyne and Heterodyne-Detection", <u>Optics Letters</u> , Vol. 8, pages 419-421, August 1983 issue
	Agrawal, G.P., "Population Pulsations and Nondegenerate 4-Wave Mixing in Semiconductor-Lasers and Amplifiers", <u>Journal Of The Optical Society Of America B-Optical Physics</u> , Vol. 5, pages 147-159, January 1998
	Andretzky, P. et al., "Optical Coherence Tomography by Spectral Radar: Improvement of Signal-to-Noise Ratio", <u>The International Society for Optical Engineering, USA</u> , Vol. 3915, 2000
	Ballif, J. et al., "Rapid and Scalable Scans at 21 m/s in optical Low-Coherence Reflectometry", <u>Optics Letters</u> , Vol. 22, pages 757-759, June 1997
	Barfuss H. et al., "Modified Optical Frequency-Domain Reflectometry with High Spatial-Resolution for Components of Integrated Optic Systems", <u>Journal Of Lightwave Technology</u> , Vol. 7, pages 3-10, January 1989

Examiner

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Group  
2587

Beaud, P. et al., "Optical Reflectometry with Micrometer Resolution for the Investigation of Integrated Optical-Devices", IEEE Journal of Quantum Electronics, Vol. 25, pages 755-759, April 1989

Bouma, Brett et al., "Power-Efficient Nonreciprocal Interferometer and Linear-Scanning Fiber-Optic Catheter for Optical Coherence Tomography", Optics Letters, Vol. 24, pages 531-533, April 1999

Brinkmeyer, E. et al., "Efficient Algorithm for Non-Equidistant Interpolation of Sampled Data", Electronics Letters, Vol. 28, page 693, March 1992

Brinkmeyer, E. et al., "High-Resolution OCDR in Dispersive Wave-Guides", Electronics Letters, Vol. 26, pages 413-414, March 1990

Chinn, S.R. et al., "Optical Coherence Tomography Using a Frequency-Tunable Optical Source", Optics Letters, Vol. 22, pages 340-342, March 1997

Danielson, B.L. et al., "Absolute Optical Ranging Using Low Coherence Interferometry", Applied Optics, Vol. 30, page 2975, July 1991

Dorrer, C. et al., "Spectral Resolution and Sampling Issues in Fourier-Transform Spectral Interferometry", Journal of the Optical Society of America B-Optical Physics, Vol. 17, pages 1795-1802, October 2000

Dudley, J.M. et al., "Cross-Correlation Frequency Resolved Optical Gating Analysis of Broadband Continuum Generation in Photonic Crystal Fiber: Simulations and Experiments", Optics Express, Vol. 10, page 1215, October 2002

Eickhoff, W. et al., "Optical Frequency-Domain Reflectometry in Single-Mode Fiber", Applied Physics Letters, Vol. 39, pages 693-695, 1981

Fercher, Adolf "Optical Coherence Tomography", Journal of Biomedical Optics, Vol. 1, pages 157-173, April 1996

Ferreira, L.A. et al., "Polarization-Insensitive Fiberoptic White-Light Interferometry", Optics Communications, Vol. 114, pages 386-392, February 1995

Fujii, Yohji, "High-Isolation Polarization-Independent Optical Circulator", Journal of Lightwave Technology, Vol. 9, pages 1239-1243, October 1991

Examiner

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Glance, B., "Polarization Independent Coherent Optical Receiver", Journal of Lightwave Technology, Vol. LT-5, page 274, February 1987

Glombitza, U., "Coherent Frequency-Domain Reflectometry for Characterization of Single-Mode Integrated-Optical Wave-Guides", Journal of Lightwave Technology, Vol. 11, pages 1377-1384, August 1993

Golubovic, B. et al., "Optical Frequency-Domain Reflectometry Using Rapid Wavelength Tuning of a Cr<sup>4+</sup>:Forsterite Laser", Optics Letters, Vol. 11, pages 1704-1706, November 1997

Haberland, U. H. P. et al., "Chirp Optical Coherence Tomography of Layered Scattering Media", Journal of Biomedical Optics, Vol. 3, pages 259-266, July 1998

Hammer, Daniel X. et al., "Spectrally Resolved White-Light Interferometry for Measurement of Ocular Dispersion", Journal of the Optical Society of America A-Optics Image Science and Vision, Vol. 16, pages 2092-2102, September 1999

Harvey, K. C. et al., "External-Cavity Diode Laser Using a Grazing-Incidence Diffraction Grating", Optics Letters, Vol. 16, pages 910-912, June 1991

Hausler, Gerd et al., "'Coherence Radar' and 'Spectral Radar' New Tools for Dermatological Diagnosis", Journal of Biomedical Optics, Vol. 3, pages 21-31, January 1998

Hee, Michael R. et al., "Polarization-Sensitive Low-Coherence Reflectometer for Birefringence Characterization and Ranging", Journal of the Optical Society of America B (Optical Physics), Vol. 9, page 903-908, June 1992

Hotate Kazuo et al., "Optical Coherence Domain Reflectometry by Synthesis of Coherence Function", Journal of Lightwave Technology, Vol. 11, pages 1701-1710, October 1993

Inoue, Kyo et al., "Nearly Degenerate 4-Wave-Mixing in a Traveling-Wave Semiconductor-Laser Amplifier", Applied Physics Letters, Vol. 51, pages 1051-1053, 1987

Ivanov, A. P. et al., "New Method for High-Range Resolution Measurements of Light Scattering in Optically Dense Inhomogeneous Media", Optics Letters, Vol. 1, pages 226-228, December 1977

Ivanov, A. P. et al., "Interferometric Study of the Spatial Structure of a Light-Scattering Medium", Journal of Applied Spectroscopy, Vol. 28, pages 518-525, 1978

Examiner

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2587

Kazovsky, L. G. et al., "Heterodyne Detection Through Rain, Snow, and Turbid Media: Effective Receiver Size at Optical Through Millimeter Wavelengths", Applied Optics, Vol. 22, pages 706-710, March 1983

Kersey, A. D. et al., "Adaptive Polarization Diversity Receiver Configuration for Coherent Optical Fiber Communications", Electronics Letters, Vol. 25, pages 275-277, February 1989

Kohlhaas, Andreas et al., "High-Resolution OCDR for Testing Integrated-Optical Waveguides: Dispersion-Corrupted Experimental Data Corrected by a Numerical Algorithm", Journal of Lightwave Technology, Vol. 9, pages 1493-1502, November 1991

Larkin, Kieran G., "Efficient Nonlinear Algorithm for Envelope Detection in White Light Interferometry", Journal of the Optical Society of America A-Optics Image Science and Vision, Vol. 13, pages 832-843, April 1996

Leitgeb, R. et al., "Spectral measurement of Absorption by Spectroscopic Frequency-Domain Optical Coherence Tomography", Optics Letters, Vol. 25, pages 820-822, June 2000

Lexer, F. et al., "Wavelength-Tuning Interferometry of Intraocular Distances", Applied Optics, Vol. 36, pages 6548-6553, September 1997

Mitsui, Takahisa, "Dynamic Range of Optical Reflectometry with Spectral Interferometry", Japanese Journal of Applied Physics Part 1-Regular Papers Short Notes & Review Papers, Vol. 38, pages 6133-6137, 1999

Naganuma, Kazunori et al., "Group-Delay Measurement Using the Fourier-Transform of an Interferometric Cross-Correlation Generated by White Light", Optics Letters, Vol. 15, pages 393-395, April 1990

Okoshi, Takanori, "Polarization-State Control Schemes for Heterodyne or Homodyne Optical Fiber Communications", Journal of Lightwave Technology, Vol. LT-3, pages 1232-1237, December 1995

Passy, R. et al., "Experimental and Theoretical Investigations of Coherent OFDR with Semiconductor-Laser Sources", Journal of Lightwave Technology, Vol. 12, pages 1622-1630, September 1994

Podoleanu, Adrian G., "Unbalanced Versus Balanced Operation in an Optical Coherence Tomography System", Applied Optics, Vol. 39, pages 173-182, January 2000

Price, J. H. V. et al., "Tunable, Femtosecond Pulse Source Operating in the Range 1.06-1.33  $\mu$ m Based on an Yb<sup>3+</sup>-doped Holey Fiber Amplifier", Journal of the Optical Society of America B-Optical Physics, Vol. 19, pages 1286-1294, June 2002

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Schnitt, J. M. et al., "Measurement of Optical-Properties O Biological Tissues By Low-Coherence Reflectometry" Applied Optics, Vol. 32, pages 6032-6042, October 1993

Silberberg, Y. et al., "Passive-Mode Locking of a Semiconductor Diode Laser", Optics Letters, Vol. 9, pages 507-509, November 1984

Smith, L. Montgomery et al., "Absolute Displacement Measurements Using Modulation of the Spectrum of White-Light in a Michelson Interferometer", Applied Optics, Vol. 28, pages 3339-3342, August 1989

Sonnenschein, C. M. et al., "Signal-To-Noise Relationships for Coaxial Systems that Heterodyne Backscatter from Atmosphere", Applied Optics, Vol. 10, pages 1600-1604, July 1971

Sorin, W. V. et al., "Measurement of Rayleigh Backscattering at 1.55  $\mu$ m with 32  $\mu$ m Spatial Resolution", IEEE Photonics Technology Letters, Vol. 4, pages 374-376, April 1992

Sorin, W. V. et al., "A Simple Intensity Noise-Reduction Technique for Optical Low-Coherence Reflectometry", IEEE Photonics Technology Letters, Vol. 4, pages 1404-1406, December 1992

Swanson, E. A. et al., "High-Speed Optical Coherence Domain Reflectometry", Optics Letters, Vol. 17, pages 151-153, January 1992

Takada, K. et al., "High-Resolution OFDR with Incorporated Fiberoptic Frequency Encoder", IEEE Photonics Technology Letters, Vol. 4, pages 1069-1072, September 1992

"Narrow-Band light Source with Acoustooptic Tunable Filter for Optical Low-Coherence Reflectometry", by Takada, Kazumasa et al., IEEE Photonics Technology Letters, Vol. 8, pages 658-660, May, 1996

Takada, Kazumasa et al., "New Measurement System for Fault Location in Optical Wave-Guide Devices Based on an Interometric-Technique", Applied Optics, Vol. 26, pages 1603-1606, May 1987

Tateda, Mitsuhiro et al., "Interferometric Method for Chromatic Dispersion Measurement in a Single-Mode Optical Fiber", IEEE Journal Of Quantum Electronics, Vol. 17, pages 404-407, March 1981

Tsude, M. et al., "Two-Dimensional Coherent Detection Imaging in Multiple Scattering Media Based the Directional Resolution Capability of the Optical Heterodyne Method", Applied Physics B (Photophysics and Laser Chemistry), Vol. B52, pages 391-394, 1991

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
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Atty. Docket No.  
036115/US - 475387-00016

Serial No.  
10/501,276

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2587

Trutha, W. R. et al., "Continuously Tuned External-Cavity Semiconductor-Laser", Journal of Lightwave Technology, Vol. 11, pages 1279-1286, August 1993

Uttam, Deepak et al., "Precision Time Domain Reflectometry in Optical Fiber Systems Using a Frequency Modulated Continuous Wave Ranging Technique", Journal of Lightwave Technology, Vol. 3, pages 971-977, October 1985

Von Der Weid, J. R. et al., "On the Characterization of Optical Fiber Network Components with Optical Frequency Domain Reflectometry", Journal of Lightwave Technology, Vol. 15, pages 1131-1141, July 1997

Wysocki, P.F. et al., "Broad-Spectrum, Wavelength-Swept, Erbium-Doped Fiber Laser at 1.55-Mu-M", Optics Letters, Vol. 15, pages 879-881, August 1990

Youngquist, Robert C. et al., "Optical Coherence-Domain Reflectometry - A New Optical Evaluation Technique", Optics Letters, Vol. 12, pages 158-160, March 1987

Yun, S. H. et al., "Wavelength-Swept Fiber Laser with Frequency Shifted Feedback and Resonantly Swept Intra-Cavity Acoustooptic Tunable Filter", IEEE Journal of Selected Topics in Quantum Electronics, Vol. 3, pages 1087-1096, August 1997

Yun, S. H. et al., "Interrogation of Fiber Grating Sensor Arrays with a Wavelength-Swept Fiber Laser", Optics Letters, Vol. 23, pages 843-845, June 1998

Yung, K. M., "Phase-Domain Processing of Optical Coherence Tomography Images", Journal of Biomedical Optics, Vol. 4, pages 125-136, January 1999

Zhou, Xiao-Qun et al., "Extended-Range FMCW Reflectometry Using an optical Loop with a Frequency Shifter", IEEE Photonics Technology Letters, Vol. 8, pages 248-250, February 1996

Zorabedian, Paul et al., "Tuning Fidelity of Acoustooptically Controlled External Cavity Semiconductor-Lasers", Journal of Lightwave Technology, Vol. 13, pages 62-66, January 1995

Victor S. Y. Lin et al., "A Porous Silicon-Based Optical Interferometric Biosensor", Science, Vol. 278, pages 840-843, October 31, 1997

4825-2568-8576/1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark OfficeAtty. Docket No.  
036115/US - 475387-00016Serial No.  
10/501,276**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
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Johannes F. de BoerFiling Date  
July 9, 2004Group  
2857**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.							Date	Name	Class	Subclass	Filing Date if Appropriate
	6	8	0	6	9	6	3	October 19, 2004	Walti et al.			

**FOREIGN PATENT DOCUMENT**

Document No.							Date	Country	Class	SubClass	Translator Yes No	
0	1	3	8	8	2	0	May 31, 2001	WIPO*				

\* U.S. equivalent is listed

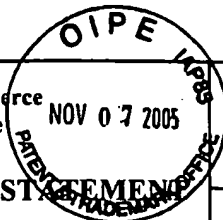
**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)**

4831-0810-8544\1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Atty. Docket No.  
036115/US/2 - 475387-  
00016

Serial No.  
10/501,276

**INFORMATION DISCLOSURE STATEMENT**  
**BY APPLICANT**  
(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer et al.

Filing Date  
July 9, 2004

Group  
2857

**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	5 7 1 0 6 3 0	January 20, 1998	Essenpreis et al.			
	5 8 0 7 2 6 1	September 15, 1998	Benaron et al.			
	5 9 5 1 4 8 2	September 14, 1999	Winston et al.			
	5 9 8 3 1 2 5	November 9, 1999	Alfano et al.			
	6 1 3 4 0 1 0	October 17, 2000	Zavitsky			
	6 1 9 3 6 7 6	February 27, 2001	Winston et al.			
	6 3 0 8 0 9 2	October 23, 2001	Hoyns			
	6 3 9 3 3 1 2	May 21, 2002	Hoyns			
	6 3 9 4 9 6 4	May 28, 2002	Sievert, Jr. et al.			
	6 4 4 5 9 4 4	September 3, 2002	Ostrovsky			
	6 4 6 3 3 1 3	October 8, 2002	Winston et al.			

**FOREIGN PATENT DOCUMENT**

Document No.	Date	Country	Class	SubClass	Translator Yes No

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

	De Boer, Johannes F. et al., "Review of Polarization Sensitive Optical Coherence Tomography and Stokes Vector Determination," <u>Journal of Biomedical Optics</u> , Vol. 7, No. 3, July 2002, pages 359-371
	Jiao, Shuang et al., "Depth-Resolved Two-Dimensional Stokes Vectors of Backscattered Light and Mueller Matrices of Biological Tissue Measured with Optical Coherence Tomography," <u>Applied Optics</u> , Vol. 39, No. 34, December 1, 2000, pages 6318-6324
	Park, B. Hyle et al., "In Vivo Burn Depth Determination by High-Speed Fiber-Based Polarization Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 6 No. 4, October 2001, pages 474-479

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036115/US/2 - 475387-  
00016

Serial No.  
10/501,276

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer et al.

Filing Date  
July 9, 2004

Group  
2857

Roth, Jonathan E. et al., "Simplified Method for Polarization-Sensitive Optical Coherence Tomography," Optics Letters, Vol. 26, No. 14, July 15, 2001, pages 1069-1071

Hitzenberger, Christopher K. et al., "Measurement and Imaging of Birefringence and Optic Axis Orientation by Phase Resolved Polarization Sensitive Optical Coherence Tomography," Optics Express, Vol. 9, No. 13, December 17, 2001, pages 780-790

Wang, Xueding et al., "Propagation of Polarized Light in Birefringent Turbid Media: Time-Resolved Simulations," Optical Imaging Laboratory, Biomedical Engineering Program, Texas A&M University

Wong, Brian J.F. et al., "Optical Coherence Tomography of the Rat Cochlea," Journal of Biomedical Optics, Vol. 5, No. 4, October 2000, pages 367-370

Yao, Gang et al., "Propagation of Polarized Light in Turbid Media: Simulated Animation Sequences," Optics Express, Vol. 7, No. 5, August 28, 2000, pages 198-203

Wang, Xiao-Jun et al., "Characterization of Dentin and Enamel by Use of Optical Coherence Tomography," Applied Optics, Vol. 38, No. 10, April 1, 1999, pages 2092-2096

De Boer, Johannes F. et al., "Determination of the Depth-Resolved Stokes Parameters of Light Backscattered from Turbid Media by use of Polarization-Sensitive Optical Coherence Tomography," Optics Letters, Vol. 24, No. 5, March 1, 1999, pages 300-302

Ducros, Mathieu G. et al., "Polarization Sensitive Optical Coherence Tomography of the Rabbit Eye," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 5, No. 4, July/August 1999, pages 1159-1167

Groner, Warren et al., "Orthogonal Polarization Spectral Imaging: A New Method for Study of the Microcirculation," Nature Medicine Inc., Vol. 5 No. 10, October 1999, pages 1209-1213

De Boer, Johannes F. et al., "Polarization Effects in Optical Coherence Tomography of Various Biological Tissues," IEEE Journal of Selected Topics in Quantum Electronics, Vol. 5, No. 4, July/August 1999, pages 1200-1204

Yao, Gang et al., "Two-Dimensional Depth-Resolved Mueller Matrix Characterization of Biological Tissue by Optical Coherence Tomography," Optics Letters, April 15, 1999, Vol. 24, No. 8, pages 537-539

Lu, Shih-Yau et al., "Homogeneous and Inhomogeneous Jones Matrices," J. Opt. Soc. Am. A., Vol. 11, No. 2, February 1994, pages 766-773

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036115/US/2 - 475387-  
00016

Serial No.  
10/501,276

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer et al.

Filing Date  
July 9, 2004

Group  
2857

Bickel, S. William et al., "Stokes Vectors, Mueller Matrices, and Polarized Scattered Light," Am. J. Phys., Vol. 53, No. 5, May 1985 pages 468-478

Br  honnet, F. Le Roy et al., "Optical Media and Target Characterization by Mueller Matrix Decomposition," J. Phys. D: Appl. Phys. 29, 1996, pages 34-38

Cameron, Brent D. et al., "Measurement and Calculation of the Two-Dimensional Backscattering Mueller Matrix of a Turbid Medium," Optics Letters, Vol. 23, No. 7, April 1, 1998, pages 485-487

De Boer, Johannes F. et al., "Two-Dimensional Birefringence Imaging in Biological Tissue by Polarization-Sensitive Optical Coherence Tomography," Optics Letters, Vol. 22, No. 12, June 15, 1997, pages 934-936

De Boer, Johannes F. et al., "Imaging Thermally Damaged Tissue by Polarization Sensitive Optical Coherence Tomography," Optics Express, Vol. 3, No. 6, September 14, 1998, pages 212-218

Everett, M.J. et al., "Birefringence Characterization of Biological Tissue by Use of Optical Coherence Tomography," Optics Letters, Vol. 23, No. 3, February 1, 1998, pages 228-230

Hee, Michael R. et al., "Polarization-Sensitive Low-Coherence Reflectometer for Birefringence Characterization and Ranging," J. Opt. Soc. Am. B., Vol. 9, No. 6, June 1992, pages 903-908

Barakat, Richard, "Statistics of the Stokes Parameters," J. Opt. Soc. Am. B., Vol. 4, No. 7, July 1987, pages 1256-1263

Schmitt, J.M. et al., "Cross-Polarized Backscatter in Optical Coherence Tomography of Biological Tissue," Optics Letters, Vol. 23, No. 13, July 1, 1998, pages 1060-1062

Schoenenberger, Klaus et al., "Mapping of Birefringence and Thermal Damage in Tissue by use of Polarization-Sensitive Optical Coherence Tomography," Applied Optics, Vol. 37, No. 25, September 1, 1998, pages 6026-6036

Pierce, Mark C. et al., "Simultaneous Intensity, Birefringence, and Flow Measurements with High-Speed Fiber-Based Optical Coherence Tomography," Optics Letters, Vol. 27, No. 17, September 1, 2002, pages 1534-1536

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 U.S. Department of Commerce  
(REV. 2/82) Patent and Trademark Office

Atty. Docket No.  
036115/US/2 - 475387-  
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Serial No.  
10/501,276

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer et al.

Filing Date  
July 9, 2004

Group  
2857

		De Boer, Johannes F. et al., "Review of Polarization Sensitive Optical Coherence Tomography and Stokes Vector Determination," <u>Journal of Biomedical Optics</u> , July 2002, Vol. 7, No. 3, pages 359-371
		Fried, Daniel et al., "Imaging Caries Lesions and Lesion Progression with Polarization Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 7, No. 4, October 2002, pages 618-627
		Jiao, Shuliang et al., "Two-Dimensional Depth-Resolved Mueller Matrix of Biological Tissue Measured with Double-Beam Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 2, January 15, 2002, pages 101-103
		Jiao, Shuliang et al., "Jones-Matrix Imaging of Biological Tissues with Quadruple-Channel Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 7, No. 3, July 2002, pages 350-358
		Kuranov, R.V. et al., "Complementary Use of Cross-Polarization and Standard OCT for Differential Diagnosis of Pathological Tissues," <u>Optics Express</u> , Vol. 10, No. 15, July 29, 2002, pages 707-713
		Cense, Barry et al., "In Vivo Depth-Resolved Birefringence Measurements of the Human Retinal Nerve Fiber Layer by Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 18, September 15, 2002, pages 1610-1612
		Ren, Hongwu et al., "Phase-Resolved Functional Optical Coherence Tomography: Simultaneous Imaging of In Situ Tissue Structure, Blood Flow Velocity, Standard Deviation, Birefringence, and Stokes Vectors in Human Skin," <u>Optics Letters</u> , Vol. 27, No. 19, October 1, 2002, pages 1702-1704
		Tripathi, Renu et al., "Spectral Shaping for Non-Gaussian Source Spectra in Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 6, March 15, 2002, pages 406-408
		Yasuno, Y. et al., "Birefringence Imaging of Human Skin by Polarization-Sensitive Spectral Interferometric Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 27, No. 20, October 15, 2002 pages 1803-1805
		White, Brian R. et al., "In Vivo Dynamic Human Retinal Blood Flow Imaging Using Ultra-High-Speed Spectral Domain Optical Doppler Tomography," <u>Optics Express</u> , Vol. 11, No. 25, December 15, 2003, pages 3490-3497
		De Boer, Johannes F. et al., "Improved Signal-to-Noise Ratio in Spectral-Domain Compared with Time-Domain Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 28, No. 21, November 1, 2003, pages 2067-2069

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2/82) Patent and Trademark Office

Atty. Docket No.  
036115/US/2 - 475387-  
00016

Serial No.  
10/501,276

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer et al.

Filing Date  
July 9, 2004

Group  
2857

		Jiao, Shuliang et al., "Optical-Fiber-Based Mueller Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 28, No. 14, July 15, 2003, pages 1206-1208
		Jiao, Shuliang et al., "Contrast Mechanisms in Polarization-Sensitive Mueller-Matrix Optical Coherence Tomography and Application in Burn Imaging," <u>Applied Optics</u> , Vol. 42, No. 25, September 1, 2003, pages 5191-5197
		Moreau, Julien et al., "Full-Field Birefringence Imaging by Thermal-Light Polarization-Sensitive Optical Coherence Tomography. I. Theory," <u>Applied Optics</u> , Vol. 42, No. 19, July 1, 2003, pages 3800-3810
		Moreau, Julien et al., "Full-Field Birefringence Imaging by Thermal-Light Polarization-Sensitive Optical Coherence Tomography. II. Instrument and Results," <u>Applied Optics</u> , Vol. 42, No. 19, July 1, 2003, pages 3811-3818
		Morgan, Stephen P. et al., "Surface-Reflection Elimination in Polarization Imaging of Superficial Tissue," <u>Optics Letters</u> , Vol. 28, No. 2, January 15, 2003, pages 114-116
		Oh, Jung-Taek et al., "Polarization-Sensitive Optical Coherence Tomography for Photoelasticity Testing of Glass/Epoxy Composites," <u>Optics Express</u> , Vol. 11, No. 14, July 14, 2003, pages 1669-1676
		Park, B. Hyle et al., "Real-Time Multi-Functional Optical Coherence Tomography," <u>Optics Express</u> , Vol. 11, No. 7, April 7, 2003, pages 782-793
		Shribak, Michael et al., "Techniques for Fast and Sensitive Measurements of Two-Dimensional Birefringence Distributions," <u>Applied Optics</u> , Vol. 42, No. 16, June 1, 2003, pages 3009-3017
		Somervell, A.R.D. et al., "Direct Measurement of Fringe Amplitude and Phase Using a Heterodyne Interferometer Operating in Broadband Light," <u>Elsevier, Optics Communications</u> , October 2003
		Stifter, D. et al., "Polarisation-Sensitive Optical Coherence Tomography for Material Characterisation and Strain-Field Mapping," <u>Applied Physics A 76, Materials Science &amp; Processing</u> , January 2003, pages 947-951
		Davé, Digant P. et al., "Polarization-Maintaining Fiber-Based Optical Low-Coherence Reflectometer for Characterization and Ranging of Birefringence," <u>Optics Letters</u> , Vol. 28, No. 19, October 1, 2003, pages 1775-1777
		Yang, Ying et al., "Observations of Birefringence in Tissues from Optic-Fibre-Based Optical Coherence Tomography," <u>Measurement Science and Technology</u> , November 2002, pages 41-46

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 7-82) Patent and Trademark Office

Atty. Docket No.  
036115/US/2 - 475387-  
00016

Serial No.  
10/501,276

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer et al.

Filing Date  
July 9, 2004

Group  
2857

		Yun, S.H. et al., "High-Speed Optical Frequency-Domain Imaging," <u>Optics Express</u> , Vol. 11, No. 22, November 3, 2003, pages 2953-2963
		Yun, S.H. et al., "High-Speed Spectral-Domain Optical Coherence Tomography at 1.3 $\mu$ m Wavelength," <u>Optics Express</u> , Vol. 11, No. 26, December 29, 2003, pages 3598-3604
		Zhang, Jun et al., "Determination of Birefringence and Absolute Optic Axis Orientation Using Polarization-Sensitive Optical Coherence Tomography with PM Fibers," <u>Optics Express</u> , Vol. 11, No. 24, December 1, 2003, pages 3262-3270
		Pircher, Michael et al., "Three Dimensional Polarization Sensitive OCT of Human Skin In Vivo," 2004, <u>Optical Society of America</u>
		Götzinger, Erich et al., "Measurement and Imaging of Birefringent Properties of the Human Cornea with Phase-Resolved, Polarization-Sensitive Optical Coherence Tomography," <u>Journal of Biomedical Optics</u> , Vol. 9, No. 1, January/February 2004, pages 94-102
		Guo, Shuguang et al., "Depth-Resolved Birefringence and Differential Optical Axis Orientation Measurements with Fiber-Based Polarization-Sensitive Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 29, No. 17, September 1, 2004, pages 2025-2027
		Huang, Xiang-Run et al., "Variation of Peripapillary Retinal Nerve Fiber Layer Birefringence in Normal Human Subjects," <u>Investigative Ophthalmology &amp; Visual Science</u> , Vol. 45, No. 9, September 2004, pages 3073-3080
		Matcher, Stephen J. et al., "The Collagen Structure of Bovine Intervertebral Disc Studied Using Polarization-Sensitive Optical Coherence Tomography," <u>Physics in Medicine and Biology</u> , 2004, pages 1295-1306
		Nassif, Nader et al., "In Vivo Human Retinal Imaging by Ultrahigh Speed Spectral Domain Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 29, No. 5, March 1, 2004, pages 480-482
		Nassif, N.A. et al., "In Vivo High-Resolution Video-Rate Spectral-Domain Optical Coherence Tomography of the Human Retina and Optic Nerve," <u>Optics Express</u> , Vol. 12, No. 3, February 9, 2004, pages 367-376
		Park, B. Hyle et al., "Comment on "Optical-Fiber-Based Mueller Optical Coherence Tomography," <u>Optics Letters</u> , Vol. 29, No. 24, December 15, 2004, pages 2873-2874

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

Atty. Docket No.  
036115/US/2 – 475387-  
00016

Serial No.  
10/501,276

**INFORMATION DISCLOSURE STATEMENT  
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(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer et al.

Filing Date  
July 9, 2004

Group  
2857

Park, B. Hyle et al., "Jones Matrix Analysis for a Polarization-Sensitive Optical Coherence Tomography System Using Fiber-Optic Components," Optics Letters, Vol. 29, No. 21, November 1, 2004, pages 2512-2514

Pierce, Mark C. et al., "Collagen Denaturation can be Quantified in Burned Human Skin Using Polarization-Sensitive Optical Coherence Tomography," Elsevier, Burns, 2004, pages 511-517

Pierce, Mark C. et al., "Advances in Optical Coherence Tomography Imaging for Dermatology," The Society for Investigative Dermatology, Inc. 2004, pages 458-463

Pierce, Mark C. et al., "Birefringence Measurements in Human Skin Using Polarization-Sensitive Optical Coherence Tomography," Journal of Biomedical Optics, Vol. 9, No. 2, March/April 2004, pages 287-291

Cense, Barry et al., "In Vivo Birefringence and Thickness Measurements of the Human Retinal Nerve Fiber Layer Using Polarization Sensitive Optical Coherence Tomography," Journal of Biomedical Optics, Vol. 9, No. 1, January/February 2004, pages 121-125

Pircher, Michael et al., "Imaging Of Polarization Properties of Human Retina in Vivo with Phase Resolved Transversal PS-OCT," Optics Express, Vol. 12, No. 24, November 29, 2004 pages 5940-5951

Pircher, Michael et al., "Transversal Phase Resolved Polarization Sensitive Optical Coherence Tomography," Physics in Medicine & Biology, 2004, pages 1257-1263

Srinivas, Shyam M. et al., "Determination of Burn Depth by Polarization-Sensitive Optical Coherence Tomography," Journal of Biomedical Optics, Vol. 9, No. 1, January/February 2004, pages 207-212

Strasswimmer, John et al., "Polarization-Sensitive Optical Coherence Tomography of Invasive Basal Cell Carcinoma," Journal of Biomedical Optics, Vol. 9, No. 2, March/April 2004, pages 292-298

Todorović, Miloš et al., "Determination of Local Polarization Properties of Biological Samples in the Presence of Diattenuation by use of Mueller Optical Coherence Tomography," Optics Letters, Vol. 29, No. 20, October 15, 2004, pages 2402-2404

Yasuno, Yoshiaki et al., "Polarization-Sensitive Complex Fourier Domain Optical Coherence Tomography for Jones Matrix Imaging of Biological Samples," Applied Physics Letters, Vol. 85, No. 15, October 11, 2004, pages 3023-3025

4845-5095-0400\1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(REV. 2-82) Patent and Trademark Office

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Group  
2857



## U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	4 9 2 8 0 0 5	May 22, 1990	Lefèvre et al.			
	5 2 0 2 7 4 5	April 13, 1993	Sorin et al.			
	5 5 6 5 9 8 6	October 15, 1996	Knüttel			
	5 8 4 7 8 2 7	December 8, 1998	Fercher			
	5 8 7 7 8 5 6	March 2, 1999	Fercher			
	5 9 2 0 3 7 3	July 6, 1999	Bille			
	5 9 9 1 6 9 7	November 23, 1999	Nelson et al.			
	6 2 0 8 4 1 5	March 27, 2001	De Boer et al.			
	6 5 4 9 8 0 1	April 15, 2003	Chen et al.			
2002	0 1 9 6 4 4 6	December 26, 2002	Roth et al.			
2002	0 1 9 8 4 5 7	December 26, 2002	Tearney et al.			

## FOREIGN PATENT DOCUMENT

Document No.	Date	Country	Class	SubClass	Translator Yes No

## OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

	Acioli, L. H., M. Ulman, et al. (1991). "Femtosecond Temporal Encoding in Barium-Titanate." <u>Optics Letters</u> 16(24): 1984-1986.
	Aigoudy, L., A. Lahrech, et al. (1999). "Polarization effects in apertureless scanning near-field optical microscopy: an experimental study." <u>Optics Letters</u> 24(4): 187-189.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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**INFORMATION DISCLOSURE STATEMENT  
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Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

Akiba, M., K. P. Chan, et al. (2003). "Full-field optical coherence tomography by two-dimensional heterodyne detection with a pair of CCD cameras." Optics Letters 28(10): 816-818.

Akkin, T., D. P. Dave, et al. (2004). "Detection of neural activity using phase-sensitive optical low-coherence reflectometry." Optics Express 12(11): 2377-2386.

Akkin, T., D. P. Dave, et al. (2003). "Surface analysis using phase sensitive optical low coherence reflectometry." Lasers in Surgery and Medicine: 4-4.

Akkin, T., D. P. Dave, et al. (2003). "Imaging tissue response to electrical and photothermal stimulation with nanometer sensitivity." Lasers in Surgery and Medicine 33(4): 219-225.

Akkin, T., T. E. Milner, et al. (2002). "Phase-sensitive measurement of birefringence change as an indication of neural functionality and diseases." Lasers in Surgery and Medicine: 6-6.

Andretzky, P., Lindner, M.W., Herrmann, J.M., Schultz, A., Konzog, M., Kiesewetter, F., Haeusler, G. (1999). "Optical coherence tomography by 'spectral radar': Dynamic range estimation and in vivo measurements of skin." Proceedings of SPIE - The International Society for Optical Engineering 3567: Pages 78-87.

Antcliff, R. J., T. J. ffytche, et al. (2000). "Optical coherence tomography of melanocytoma." American Journal of Ophthalmology 130(6): 845-7.

Antcliff, R. J., M. R. Stanford, et al. (2000). "Comparison between optical coherence tomography and fundus fluorescein angiography for the detection of cystoid macular edema in patients with uveitis." Ophthalmology 107(3): 593-9.

Anvari, B., T. E. Milner, et al. (1995). "Selective Cooling of Biological Tissues - Application for Thermally Mediated Therapeutic Procedures." Physics in Medicine and Biology 40(2): 241-252.

Anvari, B., B. S. Tanenbaum, et al. (1995). "A Theoretical-Study of the Thermal Response of Skin to Cryogen Spray Cooling and Pulsed-Laser Irradiation - Implications for Treatment of Port-Wine Stain Birthmarks." Physics in Medicine and Biology 40(9): 1451-1465

Arend, O., M. Ruffer, et al. (2000). "Macular circulation in patients with diabetes mellitus with and without arterial hypertension." British Journal of Ophthalmology 84(12): 1392-1396

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

		Arimoto, H. and Y. Ohtsuka (1997). "Measurements of the complex degree of spectral coherence by use of a wave-front-folded interferometer." <u>Optics Letters</u> 22(13): 958-960
		Azzolini, C., F. Patelli, et al. (2001). "Correlation between optical coherence tomography data and biomicroscopic interpretation of idiopathic macular hole." <u>American Journal of Ophthalmology</u> 132(3): 348-55
		Baba, T., K. Ohno-Matsui, et al. (2002). "Optical coherence tomography of choroidal neovascularization in high myopia." <u>Acta Ophthalmologica Scandinavica</u> 80(1): 82-7.
		Bail, M. A. H., Gerd; Hermann, Juergen M.; Lindner, Michael W.; Ringler, R. (1996). "Optical coherence tomography with the "spectral radar": fast optical analysis in volume scatterers by short-coherence interferometry." <u>Proc. SPIE</u> , 2925: p. 298-303.
		Baney, D. M. and W. V. Sorin (1993). "Extended-Range Optical Low-Coherence Reflectometry Using a Recirculating Delay Technique." <u>Ieee Photonics Technology Letters</u> 5(9): 1109-1112.
		Baney, D. M., B. Szafraniec, et al. (2002). "Coherent optical spectrum analyzer." <u>Ieee Photonics Technology Letters</u> 14(3): 355-357.
		Barakat, R. (1981). "Bilinear Constraints between Elements of the 4by4 Mueller-Jones Transfer-Matrix of Polarization Theory." <u>Optics Communications</u> 38(3): 159-161.
		Barakat, R. (1993). "Analytic Proofs of the Arago-Fresnel Laws for the Interference of Polarized-Light." <u>Journal of the Optical Society of America a-Optics, Image Science and Vision</u> 10(1): 180-185.
		Barbastathis, G. and D. J. Brady (1999). "Multidimensional tomographic imaging using volume holography." <u>Proceedings of the Ieee</u> 87(12): 2098-2120
		Bardal, S., A. Kamal, et al. (1992). "Photoinduced Birefringence in Optical Fibers - a Comparative-Study of Low-Birefringence and High-Birefringence Fibers." <u>Optics Letters</u> 17(6): 411-413.
		Barsky, S. H., S. Rosen, et al. (1980). "Nature and Evolution of Port Wine Stains - Computer-Assisted Study." <u>Journal of Investigative Dermatology</u> 74(3): 154-157.
		Barton, J. K., J. A. Izatt, et al. (1999). "Three-dimensional reconstruction of blood vessels from in vivo color Doppler optical coherence tomography images." <u>Dermatology</u> 198(4): 355-361.

Examiner

Date Considered

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Group  
2857

		Barton, J. K., A. Rollins, et al. (2001). "Photothermal coagulation of blood vessels: a comparison of high-speed optical coherence tomography and numerical modelling." <u>Physics in Medicine and Biology</u> 46.
		Barton, J. K., A. J. Welch, et al. (1998). "Investigating pulsed dye laser-blood vessel interaction with color Doppler optical coherence tomography." <u>Optics Express</u> 3.
		Bashkansky, M., M.D. Duncan, et al. (1997). "Subsurface defect detection in ceramics by high-speed high-resolution optical coherent tomography." <u>Optics Letters</u> 22 (1): 61-63.
		Bashkansky, M. and J. Reintjes (2000). "Statistics and reduction of speckle in optical coherence tomography." <u>Optics Letters</u> 25(8): 545-547.
		Baumgartner, A., S. Dichtl, et al. (2000). "Polarization-sensitive optical coherence tomography of dental structures." <u>Caries Research</u> 34(1): 59-69.
		Baumgartner, A., C. K. Hitzenberger, et al. (2000). "Resolution-improved dual-beam and standard optical coherence tomography: a comparison." <u>Graefes Archive for Clinical and Experimental Ophthalmology</u> 238(5): 385-392.
		Baumgartner, A., C. K. Hitzenberger, et al. (1998). "Signal and resolution enhancements in dual beam optical coherence tomography of the human eye." <u>Journal of Biomedical Optics</u> 3(1): 45-54.
		Beaupaire, E., P. Gleyzes, et al. (1998). <u>Optical coherence microscopy for the in-depth study of biological structures: System based on a parallel detection scheme</u> , Proceedings of SPIE - The International Society for Optical Engineering.
		Beaupaire, E., L. Moreaux, et al. (1999). "Combined scanning optical coherence and two-photon-excited fluorescence microscopy." <u>Optics Letters</u> 24(14): 969-971.
		Bechara, F. G., T. Gambichler, et al. (2004). "Histomorphologic correlation with routine histology and optical coherence tomography." <u>Skin Research and Technology</u> 10 (3): 169-173.
		Bechmann, M., M. J. Thiel, et al. (2000). "Central corneal thickness determined with optical coherence tomography in various types of glaucoma. [see comments]." <u>British Journal of Ophthalmology</u> 84(11): 1233-7.
		Bek, T. and M. Kandi (2000). "Quantitative anomaloscopy and optical coherence tomography scanning in central serous chorioretinopathy." <u>Acta Ophthalmologica Scandinavica</u> 78(6): 632-7.
		Benoit, A. M., K. Naun, et al. (2001). "Linear dichroism of the retinal nerve fiber layer expressed with Mueller matrices." <u>Applied Optics</u> 40(4): 565-569

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Filing Date  
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Group  
2857

Bicout, D., C. Brosseau, et al. (1994). "Depolarization of Multiply Scattered Waves by Spherical Diffusers: Influence of the Size Parameter." Physical Review E 49(2): 1767-1770.

Blanchot, L., M. Lebec, et al. (1997). Low-coherence in depth microscopy for biological tissues imaging: Design of a real time control system. Proceedings of SPIE - The International Society for Optical Engineering.

Blumenthal, E. Z. and R. N. Weinreb (2001). "Assessment of the retinal nerve fiber layer in clinical trials of glaucoma neuroprotection. [Review] [36 refs]." Survey of Ophthalmology 45(Suppl 3): S305-12; discussion S332-4.

Blumenthal, E. Z., J. M. Williams, et al. (2000). "Reproducibility of nerve fiber layer thickness measurements by use of optical coherence tomography." Ophthalmology 107(12): 2278-82.

Boppart, S. A., B. E. Bouma, et al. (1996). "Imaging developing neural morphology using optical coherence tomography." Journal of Neuroscience Methods 70.

Boppart, S. A., B. E. Bouma, et al. (1997). "Forward-imaging instruments for optical coherence tomography." Optics Letters 22.

Boppart, S. A., B. E. Bouma, et al. (1998). "Intraoperative assessment of microsurgery with three-dimensional optical coherence tomography." Radiology 208: 81-86.

Boppart, S. A., J. Herrmann, et al. (1999). "High-resolution optical coherence tomography-guided laser ablation of surgical tissue." Journal of Surgical Research 82(2): 275-84.

Bouma, B. E. and J. G. Fujimoto (1996). "Compact Kerr-lens mode-locked resonators." Optics Letters 21.

Bouma, B. E., L. E. Nelson, et al. (1998). "Optical coherence tomographic imaging of human tissue at 1.55  $\mu\text{m}$  and 1.81  $\mu\text{m}$  using Er and Tm-doped fiber sources." Journal of Biomedical Optics 3.

Bouma, B. E., M. Ramaswamy-Paye, et al. (1997). "Compact resonator designs for mode-locked solid-state lasers." Applied Physics B (Lasers and Optics) B65.

Bouma, B. E. and G. J. Tearney (2002). "Clinical imaging with optical coherence tomography." Academic Radiology 9(8): 942-953.

Bouma, B. E., G. J. Tearney, et al. (1996). "Self-phase-modulated Kerr-lens mode-locked Cr:forsterite laser source for optical coherence tomography." Optics Letters 21(22): 1839.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Group  
2857

Bouma, B. E., G. J. Tearney, et al. (2000). "High-resolution imaging of the human esophagus and stomach in vivo using optical coherence tomography." Gastrointestinal Endoscopy 51(4): 467-474.

Bouma, B. E., G. J. Tearney, et al. (2003). "Evaluation of intracoronary stenting by intravascular optical coherence tomography." Heart 89(3): 317-320.

Bourquin, S., V. Monterosso, et al. (2000). "Video-rate optical low-coherence reflectometry based on a linear smart detector array." Optics Letters 25(2): 102-104.

Bourquin, S., P. Seitz, et al. (2001). "Optical coherence tomography based on a two-dimensional smart detector array." Optics Letters 26(8): 512-514.

Bouza, A., M. A. G. Abushagur, et al. (1995). "Fiber-optic four-detector polarimeter." Optics Communications 118(3-4): 329-334.

Bowd, C., R. N. Weinreb, et al. (2000). "The retinal nerve fiber layer thickness in ocular hypertensive, normal, and glaucomatous eyes with optical coherence tomography." Archives of Ophthalmology 118(1): 22-6.

Bowd, C., L. M. Zangwill, et al. (2001). "Detecting early glaucoma by assessment of retinal nerve fiber layer thickness and visual function." Investigative Ophthalmology & Visual Science 42(9): 1993-2003.

Bowd, C., L. M. Zangwill, et al. (2002). "Imaging of the optic disc and retinal nerve fiber layer: the effects of age, optic disc area, refractive error, and gender." Journal of the Optical Society of America, A, Optics, Image Science, & Vision 19(1): 197-207.

Brand, S., J. M. Poneros, et al. (2000). "Optical coherence tomography in the gastrointestinal tract." Endoscopy 32(10): 796-803.

Brezinski, M. E. and J. G. Fujimoto (1999). "Optical coherence tomography: high-resolution imaging in nontransparent tissue." IEEE Journal of Selected Topics in Quantum Electronics 5(4): 1185-1192.

Brezinski, M. E., G. J. Tearney, et al. (1996). "Imaging of coronary artery microstructure (in vitro) with optical coherence tomography." American Journal of Cardiology 77 (1): 92-93.

Brezinski, M. E., G. J. Tearney, et al. (1996). "Optical coherence tomography for optical biopsy - Properties and demonstration of vascular pathology." Circulation 93(6): 1206-1213.

Brezinski, M. E., G. J. Tearney, et al. (1997). "Assessing atherosclerotic plaque morphology: Comparison of optical coherence tomography and high frequency intravascular ultrasound." Heart 77(5): 397-403.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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BY APPLICANT**

(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

Brink, N. B. K. and G. J. Vanblokkland (1988). "Birefringence of the Human Foveal Area Assessed In vivo with Mueller-Matrix Ellipsometry." Journal of the Optical Society of America a-Optics Image Science and Vision 5(1): 49-57.

Brosseau, C. and D. Bicout (1994). "Entropy Production in Multiple Scattering of Light by a Spatially Random Medium." Physical Review E 50(6): 4997-5005.

Burgoyne, C. F., D. E. Mercante, et al. (2002). "Change detection in regional and volumetric disc parameters using longitudinal confocal scanning laser tomography." Ophthalmology 109(3): 455-66.

Candido, R. and T. J. Allen (2002). "Haemodynamics in microvascular complications in type 1 diabetes." Diabetes-Metabolism Research and Reviews 18(4): 286-304.

Cense, B., T. C. Chen, et al. (2004). "Thickness and birefringence of healthy retinal nerve fiber layer tissue measured with polarization-sensitive optical coherence tomography." Investigative Ophthalmology & Visual Science 45(8): 2606-2612.

Cense, B., N. Nassif, et al. (2004). "Ultra-high-Resolution High-Speed Retinal Imaging Using Spectral-Domain Optical Coherence Tomography." Optics Express 12(11): 2435-2447.

Chance, B., J. S. Leigh, et al. (1988). "Comparison of Time-Resolved and Time-Unresolved Measurements of Deoxyhemoglobin in Brain." Proceedings of the National Academy of Sciences of the United States of America 85(14): 4971-4975.

Chang, E. P., D. A. Keedy, et al. (1974). "Ultrastructures of Rabbit Corneal Stroma - Mapping of Optical and Morphological Anisotropies." Biochimica Et Biophysica Acta 343(3): 615-626.

Chartier, T., A. Hideur, et al. (2001). "Measurement of the elliptical birefringence of single-mode optical fibers." Applied Optics 40(30): 5343-5353.

Chauhan, B. C., J. W. Blanchard, et al. (2000). "Technique for Detecting Serial Topographic Changes in the Optic Disc and Peripapillary Retina Using Scanning Laser Tomograph." Invest Ophthalmol Vis Sci 41: 775-782.

Chen, Z. P., T. E. Milner, et al. (1997). "Optical Doppler tomographic imaging of fluid flow velocity in highly scattering media." Optics Letters 22(1): 64-66.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
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Filing Date  
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Group  
2857

Chen, Z. P., T. E. Milner, et al. (1997). "Noninvasive imaging of in vivo blood flow velocity using optical Doppler tomography." Optics Letters 22(14): 1119-1121.

Chen, Z. P., X. H. Zhao, et al. (1999). "Optical Doppler tomography." Ieee Journal of Selected Topics in Quantum Electronics 5(4): 1134-1142.

Cheong, W. F., S. A. Prahl, et al. (1990). "A Review of the Optical-Properties of Biological Tissues." Ieee Journal of Quantum Electronics 26(12): 2166-2185.

Chernikov, S. V., Y. Zhu, et al. (1997). "Supercontinuum self-Q-switched ytterbium fiber laser." Optics Letters 22(5): 298-300.

Cho, S. H., B. E. Bouma, et al. (1999). "Low-repetition-rate high-peak-power Kerr-lens mode-locked Ti:Al/sub 2/O/sub 3/ laser with a multiple-pass cavity." Optics Letters 24(6): 417-419.

Choma, M. A., M. V. Sarunic, et al. (2003). "Sensitivity advantage of swept source and Fourier domain optical coherence tomography." Optics Express 11(18): 2183-2189.

Choma, M. A., C. H. Yang, et al. (2003). "Instantaneous quadrature low-coherence interferometry with 3 x 3 fiber-optic couplers." Optics Letters 28(22): 2162-2164.

Choplin, N. T. and D. C. Lundy (2001). "The sensitivity and specificity of scanning laser polarimetry in the detection of glaucoma in a clinical setting." Ophthalmology 108 (5): 899-904.

Christens Barry, W. A., W. J. Green, et al. (1996). "Spatial mapping of polarized light transmission in the central rabbit cornea." Experimental Eye Research 62(6): 651-662.

Chvapil, M., D. P. Speer, et al. (1984). "Identification of the depth of burn injury by collagen stainability." Plastic & Reconstructive Surgery 73(3): 438-41.

Cioffi, G. A. (2001). "Three common assumptions about ocular blood flow and glaucoma." Survey of Ophthalmology 45: S325-S331.

Coleman, A. L. (1999). "Glaucoma." Lancet 354(9192): 1803-10.

Collaborative Normal-Tension Glaucoma Study Group (1998). "Comparison of Glaucomatous Progression Between Untreated Patients With Normal Tension Glaucoma and Patients with Therapeutically Reduced Intraocular Pressures." Am J Ophthalmol 126: 487-97.

Collaborative Normal-Tension Glaucoma Study Group (1998). "The effectiveness of intraocular pressure reduction in the treatment of normal-tension glaucoma." Am J Ophthalmol 126: 498-505.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Filing Date  
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Group  
2857

Collaborative Normal-Tension Glaucoma Study Group (2001). "Natural History of Normal-Tension Glaucoma." Ophthalmology 108: 247-253.

Colston, B. W., M. J. Everett, et al. (1998). "Imaging of hard- and soft-tissue structure in the oral cavity by optical coherence tomography." Applied Optics 37(16): 3582-3585.

Colston, B. W., U. S. Sathyam, et al. (1998). "Dental OCT." Optics Express 3(6): 230-238.

Congdon, N. G., D. S. Friedman, et al. (2003). "Important causes of visual impairment in the world today." Jama-Journal of the American Medical Association 290(15): 2057-2060.

Cregan, R. F., B. J. Mangan, et al. (1999). "Single-mode photonic band gap guidance of light in air." Science 285(5433): 1537-1539.

DalMolin, M., A. Galtarossa, et al. (1997). "Experimental investigation of linear polarization in high-birefringence single-mode fibers." Applied Optics 36(12): 2526-2528.

Danielson, B. L. and C. D. Whittenberg (1987). "Guided-Wave Reflectometry with Micrometer Resolution." Applied Optics 26(14): 2836-2842.

Dave, D. P. and T. E. Milner (2000). "Doppler-angle measurement in highly scattering media." Optics Letters 25(20): 1523-1525.

de Boer, J. F., T. E. Milner, et al. (1998). Two dimensional birefringence imaging in biological tissue using phase and polarization sensitive optical coherence tomography. Trends in Optics and Photonics (TOPS): Advances in Optical Imaging and Photon Migration, Orlando, USA, Optical Society of America, Washington, DC 1998.

de Boer, J. F., C. E. Saxer, et al. (2001). "Stable carrier generation and phase-resolved digital data processing in optical coherence tomography." Applied Optics 40(31): 5787-5790.

Degroot, P. and L. Deck (1993). "3-Dimensional Imaging by Sub-Nyquist Sampling of White-Light Interferograms." Optics Letters 18(17): 1462-1464.

Denk, W., J. H. Strickler, et al. (1990). "2-Photon Laser Scanning Fluorescence Microscopy." Science 248(4951): 73-76.

Descour, M. R., A. H. O. Karkkainen, et al. (2002). "Toward the development of miniaturized imaging systems for detection of pre-cancer." Ieee Journal of Quantum Electronics 38(2): 122-130.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Group  
2857

Dettwiler, L. (1997). "Polarization state interference: A general investigation." Pure and Applied Optics 6(1): 41-53.

DiCarlo, C. D., W. P. Roach, et al. (1999). "Comparison of optical coherence tomography imaging of cataracts with histopathology." Journal of Biomedical Optics 4.

Ding, Z., Y. Zhao, et al. (2002). "Real-time phase-resolved optical coherence tomography and optical Doppler tomography." Optics Express 10(5): 236-245.

Dobrin, P. B. (1996). "Effect of histologic preparation on the cross-sectional area of arterial rings." Journal of Surgical Research 61(2): 413-5.

Donohue, D. J., B. J. Stoyanov, et al. (1995). "Numerical Modeling of the Corneas Lamellar Structure and Birefringence Properties." Journal of the Optical Society of America a-Optics Image Science and Vision 12(7): 1425-1438.

Doornbos, R. M. P., R. Lang, et al. (1999). "The determination of in vivo human tissue optical properties and absolute chromophore concentrations using spatially resolved steady-state diffuse reflectance spectroscopy." Physics in Medicine and Biology 44(4): 967-981.

Drexler, W., A. Baumgartner, et al. (1997). "Biometric investigation of changes in the anterior eye segment during accommodation." Vision Research 37(19): 2789-2800.

Drexler, W., A. Baumgartner, et al. (1997). "Submicrometer precision biometry of the anterior segment of the human eye." Investigative Ophthalmology & Visual Science 38(7): 1304-1313.

Drexler, W., A. Baumgartner, et al. (1998). "Dual beam optical coherence tomography: signal identification for ophthalmologic diagnosis." Journal of Biomedical Optics 3 (1): 55-65.

Drexler, W., O. Findl, et al. (1998). "Partial coherence interferometry: A novel approach to biometry in cataract surgery." American Journal of Ophthalmology 126(4): 524-534.

Drexler, W., O. Findl, et al. (1997). "Clinical feasibility of dual beam optical coherence topography and tomography for ophthalmologic diagnosis." Investigative Ophthalmology & Visual Science 38(4): 1038-1038.

Drexler, W., C. K. Hitzenberger, et al. (1998). "Investigation of dispersion effects in ocular media by multiple wavelength partial coherence interferometry." Experimental Eye Research 66(1): 25-33.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Group  
2857

Drexler, W., C. K. Hitzenberger, et al. (1996). "(Sub)micrometer precision biometry of the human eye by optical coherence tomography and topography." Investigative Ophthalmology & Visual Science 37(3): 4374-4374.

Drexler, W., C. K. Hitzenberger, et al. (1995). "Measurement of the Thickness of Fundus Layers by Partial Coherence Tomography." Optical Engineering 34(3): 701-710.

Drexler, W., U. Morgner, et al. (2001). "Ultrahigh-resolution ophthalmic optical coherence tomography." Nature Medicine 7(4): 502-507.

Drexler, W., U. Morgner, et al. (2001). "Ultrahigh-resolution ophthalmic optical coherence tomography. [erratum appears in Nat Med 2001 May;7(5):636.]" Nature Medicine 7(4): 502-7.

Drexler, W., H. Sattmann, et al. (2003). "Enhanced visualization of macular pathology with the use of ultrahigh-resolution optical coherence tomography." Archives of Ophthalmology 121(5): 695-706.

Drexler, W., D. Stamper, et al. (2001). "Correlation of collagen organization with polarization sensitive imaging of in vitro cartilage: implications for osteoarthritis." Journal of Rheumatology 28(6): 1311-8.

Droog, E. J., W. Steenbergen, et al. (2001). "Measurement of depth of burns by laser Doppler perfusion imaging." Burns 27(6): 561-8.

Dubois, A., K. Grieve, et al. (2004). "Ultrahigh-resolution full-field optical coherence tomography." Applied Optics 43(14): 2874-2883.

Dubois, A., L. Vabre, et al. (2002). "High-resolution full-field optical coherence tomography with a Linnik microscope." Applied Optics 41(4): 805-812.

Ducros, M., M. Laubscher, et al. (2002). "Parallel optical coherence tomography in scattering samples using a two-dimensional smart-pixel detector array." Optics Communications 202(1-3): 29-35.

Ducros, M. G., J. D. Marsack, et al. (2001). "Primate retina imaging with polarization-sensitive optical coherence tomography." Journal of the Optical Society of America a-Optics Image Science and Vision 18(12): 2945-2956.

Duncan, A., J. H. Meek, et al. (1995). "Optical Pathlength Measurements on Adult Head, Calf and Forearm and the Head of the Newborn-Infant Using Phase-Resolved Optical Spectroscopy." Physics in Medicine and Biology 40(2): 295-304.

Examiner

Date Considered

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Group  
2857

Eigensee, A., G. Haeusler, et al. (1996). "New method of short-coherence interferometry in human skin (in vivo) and in solid volume scatterers." Proceedings of SPIE - The International Society for Optical Engineering 2925: 169-178.

Eisenbeiss, W., J. Marotz, et al. (1999). "Reflection-optical multispectral imaging method for objective determination of burn depth." Burns 25(8): 697-704.

Elbaum, M., M. King, et al. (1972). "Wavelength-Diversity Technique for Reduction of Speckle Size." Journal of the Optical Society of America 62(5): 722-&.

Ervin, J. C., H. G. Lemij, et al. (2002). "Clinician change detection viewing longitudinal stereophotographs compared to confocal scanning laser tomography in the LSU Experimental Glaucoma (LEG) Study." Ophthalmology 109(3): 467-81.

Essenpreis, M., C. E. Elwell, et al. (1993). "Spectral Dependence of Temporal Point Spread Functions in Human Tissues." Applied Optics 32(4): 418-425.

Eun, H. C. (1995). "Evaluation of skin blood flow by laser Doppler flowmetry. [Review] [151 refs]." Clinics in Dermatology 13(4): 337-47.

Evans, J. A., J. M. Poneros, et al. (2004). "Application of a histopathologic scoring system to optical coherence tomography (OCT) images to identify high-grade dysplasia in Barrett's esophagus." Gastroenterology 126(4): A51-A51.

Feldchtein, F. I., G. V. Gelikonov, et al. (1998). "In vivo OCT imaging of hard and soft tissue of the oral cavity." Optics Express 3(6): 239-250.

Feldchtein, F. I., G. V. Gelikonov, et al. (1998). "Endoscopic applications of optical coherence tomography." Optics Express 3(6): 257-270.

Fercher, A. F., W. Drexler, et al. (1997). "Optical ocular tomography." Neuro- Ophthalmology 18(2): 39-49.

Fercher, A. F., W. Drexler, et al. (1994). Measurement of optical distances by optical spectrum modulation. Proceedings of SPIE - The International Society for Optical Engineering.

Examiner

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2857

Fercher, A. F., W. Drexler, et al. (2003). "Optical coherence tomography - principles and applications." Reports on Progress in Physics 66(2): 239-303.

Fercher, A. F., C. Hitzenberger, et al. (1991). "Measurement of Intraocular Optical Distances Using Partially Coherent Laser-Light." Journal of Modern Optics 38(7): 1327-1333.

Fercher, A. F., C. K. Hitzenberger, et al. (1996). Ocular partial coherence interferometry. Proceedings of SPIE - The International Society for Optical Engineering.

Fercher, A. F., C. K. Hitzenberger, et al. (1993). "In-Vivo Optical Coherence Tomography." American Journal of Ophthalmology 116(1): 113-115.

Fercher, A. F., C. K. Hitzenberger, et al. (1994). In-vivo dual-beam optical coherence tomography. Proceedings of SPIE - The International Society for Optical Engineering.

Fercher, A. F., C. K. Hitzenberger, et al. (1995). "Measurement of Intraocular Distances by Backscattering Spectral Interferometry." Optics Communications 117(1-2): 43-48.

Fercher, A. F., C. K. Hitzenberger, et al. (2000). "A thermal light source technique for optical coherence tomography." Optics Communications 185(1-3): 57-64.

Fercher, A. F., C. K. Hitzenberger, et al. (2001). "Numerical dispersion compensation for Partial Coherence Interferometry and Optical Coherence Tomography." Optics Express 9(12): 610-615.

Fercher, A. F., C. K. Hitzenberger, et al. (2002). "Dispersion compensation for optical coherence tomography depth-scan signals by a numerical technique." Optics Communications 204(1-6): 67-74.

Fercher, A. F., H. C. Li, et al. (1993). "Slit Lamp Laser-Doppler Interferometer." Lasers in Surgery and Medicine 13(4): 447-452.

Fercher, A. F., K. Mengedocht, et al. (1988). "Eye-Length Measurement by Interferometry with Partially Coherent-Light." Optics Letters 13(3): 186-188.

Examiner

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Group  
2857

Ferro, P. M. Haelterman, et al. (1991). "All-Optical Polarization Switch with Long Low-Birefringence Fiber." Electronics Letters 27(16): 1407-1408.

Fetterman, M. R., D. Goswami, et al. (1998). "Ultrafast pulse shaping, amplification and characterization." Optics Express 3(10): 366-375.

Findl, O., W. Drexler, et al. (2001). "Improved prediction of intraocular lens power using partial coherence interferometry." Journal of Cataract and Refractive Surgery 27 (6): 861-867.

Fork, R. L., C. H. B. Cruz, et al. (1987). "Compression of Optical Pulses to 6 Femtoseconds by Using Cubic Phase Compensation." Optics Letters 12(7): 483-485.

Foschini, G. J. and C. D. Poole (1991). "Statistical-Theory of Polarization Dispersion in Single-Mode Fibers." Journal of Lightwave Technology 9(11): 1439-1456.

Francia, C., F. Bruyere, et al. (1998). "PMO second-order effects on pulse propagation in single-mode optical fibers." Ieee Photonics Technology Letters 10(12): 1739-1741

Fried, D., R. E. Glena, et al. (1995). "Nature of Light-Scattering in Dental Enamel and Dentin at Visible and near-Infrared Wavelengths." Applied Optics 34(7): 1278-1285.

Fujimoto, J. G., M. E. Brezinski, et al. (1995). "Optical Biopsy and Imaging Using Optical Coherence Tomography." Nature Medicine 1(9): 970-972.

Fukasawa, A. and H. Iijima (2002). "Optical coherence tomography of choroidal osteoma." American Journal of Ophthalmology 133(3): 419-21.

Fymat, A. L. (1981). "High-Resolution Interferometric Spectrophotopolarimetry." Optical Engineering 20(1): 25-30.

Galtarossa, A., L. Palmieri, et al. (2000). "Statistical characterization of fiber random birefringence." Optics Letters 25(18): 1322-1324.

Galtarossa, A., L. Palmieri, et al. (2000). "Measurements of beat length and perturbation length in long single-mode fibers." Optics Letters 25(6): 384-386.

Examiner

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2857

Gandjbakhche, A. H., P. Mills, et al. (1994). "Light-Scattering Technique for the Study of Orientation and Deformation of Red-Blood-Cells in a Concentrated Suspension." Applied Optics 33(6): 1070-1078.

Garcia, N. and M. Nieto-Vesperinas (2002). "Left-handed materials do not make a perfect lens." Physical Review Letters 88(20).

Gelikonov, V. M., G. V. Gelikonov, et al. (1995). "Coherent Optical Tomography of Microscopic Inhomogeneities in Biological Tissues." Jetp Letters 61(2): 158-162.

George, N. and A. Jain (1973). "Speckle Reduction Using Multiple Tones of Illumination." Applied Optics 12(6): 1202-1212.

Gibson, G. N., R. Klank, et al. (1996). "Electro-optically cavity-dumped ultrashort-pulse Ti:sapphire oscillator." Optics Letters 21(14): 1055.

Gil, J. J. (2000). "Characteristic properties of Mueller matrices." Journal of the Optical Society of America a-Optics Image Science and Vision 17(2): 328-334.

Gil, J. J. and E. Bernabeu (1987). "Obtainment of the Polarizing and Retardation Parameters of a Nondepolarizing Optical-System from the Polar Decomposition of Its Mueller Matrix." Optik 76(2): 67-71.

Gladkova, N. D., G. A. Petrova, et al. (2000). "In vivo optical coherence tomography imaging of human skin: norm and pathology." Skin Research and Technology 6 (1): 6-16.

Glaessl, A., A. G. Schreyer, et al. (2001). "Laser surgical planning with magnetic resonance imaging-based 3-dimensional reconstructions for intralesional Nd : YAG laser therapy of a venous malformation of the neck." Archives of Dermatology 137(10): 1331-1335.

Gloesmann, M., B. Hermann, et al. (2003). "Histologic correlation of pig retina radial stratification with ultrahigh-resolution optical coherence tomography." Investigative Ophthalmology & Visual Science 44(4): 1696-1703.

Goldberg, L. and D. Mehuys (1994). "High-Power Superluminescent Diode Source." Electronics Letters 30(20): 1682-1684.

Goldsmith, J. A., Y. Li, et al. (2005). "Anterior chamber width measurement by high speed optical coherence tomography." Ophthalmology 112(2): 238-244.

Examiner

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2857

Goldstein, L. E., J. A. Muffat, et al. (2003). "Cytosolic beta-amyloid deposition and supranuclear cataracts in lenses from people with Alzheimer's disease." Lancet 361(9365): 1258-1265.

Golubovic, B., B. E. Bouma, et al. (1996). "Thin crystal, room-temperature Cr/sup 4 +/:forstefite laser using near-infrared pumping." Optics Letters 21(24): 1993-1995.

Gonzalez, S. and Z. Tannous (2002). "Real-time, in vivo confocal reflectance microscopy of basal cell carcinoma." Journal of the American Academy of Dermatology 47(6): 869-874.

Gordon, M. O. and M. A. Kass (1999). "The Ocular Hypertension Treatment Study: design and baseline description of the participants." Archives of Ophthalmology 117(5): 573-83.

Grayson, T. P., J. R. Torgerson, et al. (1994). "Observation of a Nonlocal Pancharatnam Phase-Shift in the Process of Induced Coherence without Induced Emission." Physical Review A 49(1): 626-628.

Greaney, M. J., D. C. Hoffman, et al. (2002). "Comparison of optic nerve imaging methods to distinguish normal eyes from those with glaucoma." Investigative Ophthalmology & Visual Science 43(1): 140-5.

Greenfield, D. S., H. Bagga, et al. (2003). "Macular thickness changes in glaucomatous optic neuropathy detected using optical coherence tomography." Archives of Ophthalmology 121(1): 41-46.

Greenfield, D. S., R. W. Knighton, et al. (2000). "Effect of corneal polarization axis on assessment of retinal nerve fiber layer thickness by scanning laser polarimetry." American Journal of Ophthalmology 129(6): 715-722.

Griffin, R. A., D. D. Sampson, et al. (1995). "Coherence Coding for Photonic Code-Division Multiple-Access Networks." Journal of Lightwave Technology 13(9): 1826-1837.

Guedes, V., J. S. Schuman, et al. (2003). "Optical coherence tomography measurement of macular and nerve fiber layer thickness in normal and glaucomatous human eyes." Ophthalmology 110(1): 177-189.

Gueugniaud, P. Y., H. Carsin, et al. (2000). "Current advances in the initial management of major thermal burns. [Review] [76 refs]." Intensive Care Medicine 26(7): 848-56.

Examiner

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Group  
2857

Guido, S. and R. T. Tranquillo (1993). "A Methodology for the Systematic and Quantitative Study of Cell Contact Guidance in Oriented Collagen Gels - Correlation of Fibroblast Orientation and Gel Birefringence." Journal of Cell Science 105: 317-331.

Gurses-Ozden, R., H. Ishikawa, et al. (1999). "Increasing sampling density improves reproducibility of optical coherence tomography measurements." Journal of Glaucoma 8(4): 238-41.

Guzzi, R. (1998). "Scattering Theory from Homogeneous and Coated Spheres." 1-11.

Haberland, U. B., Vladimir; Schmitt, Hans J. (1996). "Optical coherent tomography of scattering media using electrically tunable near-infrared semiconductor laser." Applied Optics Draft Copy.

Haberland, U. R., Walter; Blazek; Vladimir; Schmitt, Hans J. (1995). "Investigation of highly scattering media using near-infrared continuous wave tunable semiconductor laser." Proc. SPIE, 2389: 503-512.

Hale, G. M. and M. R. Querry (1973). "Optical-Constants of Water in 200-Nm to 200-Mum Wavelength Region." Applied Optics 12(3): 555-563.

Hammer, D. X., R. D. Ferguson, et al. (2002). "Image stabilization for scanning laser ophthalmoscopy." Optics Express 10(26): 1542.

Hara, T., Y. Ooi, et al. (1989). "Transfer Characteristics of the Microchannel Spatial Light-Modulator." Applied Optics 28(22): 4781-4786.

Harland, C. C., S. G. Kale, et al. (2000). "Differentiation of common benign pigmented skin lesions from melanoma by high-resolution ultrasound." British Journal of Dermatology 143(2): 281-289.

Hartl, I., X. D. Li, et al. (2001). "Ultrahigh-resolution optical coherence tomography using continuum generation in an air-silica microstructure optical fiber." Optics Letters 26(9): 608-610.

Hassenstein, A., A. A. Bialasiewicz, et al. (2000). "Optical coherence tomography in uveitis patients." American Journal of Ophthalmology 130(5): 669-70.

Hattenhauer, M. G., D. H. Johnson, et al. (1998). "The probability of blindness from open-angle glaucoma. [see comments]." Ophthalmology 105(11): 2099-104.

Examiner

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2857

Hausler, G., J. M. Herrmann, et al. (1996). "Observation of light propagation in volume scatterers with 10(11)-fold slow motion." Optics Letters 21(14): 1087-1089.

Hazebroek, H. F. and A. A. Holscher (1973). "Interferometric Ellipsometry." Journal of Physics E-Scientific Instruments 6(9): 822-826.

Hazebroek, H. F. and W. M. Visser (1983). "Automated Laser Interferometric Ellipsometry and Precision Reflectometry." Journal of Physics E-Scientific Instruments 16(7): 654-661.

He, Z. Y., N. Mukohzaka, et al. (1997). "Selective image extraction by synthesis of the coherence function using two-dimensional optical lock-in amplifier with microchannel spatial light modulator." Ieee Photonics Technology Letters 9(4): 514-516.

Hee, M. R., J. A. Izatt, et al. (1993). "Femtosecond Transillumination Optical Coherence Tomography." Optics Letters 18(12): 950-952.

Hee, M. R., J. A. Izatt, et al. (1995). "Optical coherence tomography of the human retina." Archives of Ophthalmology 113(3): 325-32.

Hee, M. R., C. A. Puliafito, et al. (1998). "Topography of diabetic macular edema with optical coherence tomography." Ophthalmology 105(2): 360-70.

Hee, M. R., C. A. Puliafito, et al. (1995). "Quantitative assessment of macular edema with optical coherence tomography." Archives of Ophthalmology 113(8): 1019-29.

Hellmuth, T. and M. Welle (1998). "Simultaneous measurement of dispersion, spectrum, and distance with a fourier transform spectrometer." Journal of Biomedical Optics 3(1): 7-11.

Hemenger, R. P. (1989). "Birefringence of a medium of tenuous parallel cylinders." APPLIED OPTICS 28(18): 4030-4034.

Henry, M. (1981). "Fresnel-Arago Laws for Interference in Polarized-Light - Demonstration Experiment." American Journal of Physics 49(7): 690-691.

Herz, P. R., Y. Chen, et al. (2004). "Micromotor endoscope catheter for in vivo, ultrahigh-resolution optical coherence tomography." Optics Letters 29(19): 2261-2263.

Examiner

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2857

Hirakawa, H., H. Iijima, et al. (1999). "Optical coherence tomography of cystoid macular edema associated with retinitis pigmentosa." American Journal of Ophthalmology 128(2): 185-91.

Hitzenberger, C. K., A. Baumgartner, et al. (1994). "Interferometric Measurement of Corneal Thickness with Micrometer Precision." American Journal of Ophthalmology 118(4): 468-476.

Hitzenberger, C. K., A. Baumgartner, et al. (1999). "Dispersion effects in partial coherence interferometry: Implications for intraocular ranging." Journal of Biomedical Optics 4(1): 144-151.

Hitzenberger, C. K., A. Baumgartner, et al. (1998). "Dispersion induced multiple signal peak splitting in partial coherence interferometry." Optics Communications 154 (4): 179-185.

Hitzenberger, C. K., M. Danner, et al. (1999). "Measurement of the spatial coherence of superluminescent diodes." Journal of Modern Optics 46(12): 1763-1774.

Hitzenberger, C. K. and A. F. Fercher (1999). "Differential phase contrast in optical coherence tomography." Optics Letters 24(9): 622-624.

Hitzenberger, C. K., M. Sticker, et al. (2001). "Differential phase measurements in low-coherence interferometry without 2 pi ambiguity." Optics Letters 26(23): 1864-1866.

Hoeling, B. M., A. D. Fernandez, et al. (2000). "An optical coherence microscope for 3-dimensional imaging in developmental biology." Optics Express 6(7): 136-146.

Hoerauf, H., C. Scholz, et al. (2002). "Transscleral optical coherence tomography: a new imaging method for the anterior segment of the eye." Archives of Ophthalmology 120(6): 816-9.

Hoffmann, K., M. Happe, et al. (1998). "Optical coherence tomography (OCT) in dermatology." Journal of Investigative Dermatology 110(4): 583-583.

Hoh, S. T., D. S. Greenfield, et al. (2000). "Optical coherence tomography and scanning laser polarimetry in normal, ocular hypertensive, and glaucomatous eyes." American Journal of Ophthalmology 129(2): 129-35.

Hohenleutner, U., M. Hilbert, et al. (1995). "Epidermal Damage and Limited Coagulation Depth with the Flashlamp-Pumped Pulsed Dye-Laser - a Histochemical-Study." Journal of Investigative Dermatology 104(5): 798-802.

Examiner

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2857

Holland, A. J. A., H. C. O. Martin, et al. (2002). "Laser Doppler imaging prediction of burn wound outcome in children." Burns 28(1): 11-17.

Hotate, K. and T. Okugawa (1994). "Optical Information-Processing by Synthesis of the Coherence Function." Journal of Lightwave Technology 12(7): 1247-1255.

Hourdakis, C. J. and A. Perris (1995). "A Monte-Carlo Estimation of Tissue Optical-Properties for Use in Laser Dosimetry." Physics in Medicine and Biology 40(3): 351-364.

Hu, Z., F. Li, et al. (2000). "Wavelength-tunable narrow-linewidth semiconductor fiber-ring laser." IEEE Photonics Technology Letters 12(8): 977-979.

Huang, F., W. Yang, et al. (2001). "Quadrature spectral interferometric detection and pulse shaping." Optics Letters 26(6): 382-384.

Huang, X. R. and R. W. Knighton (2002). "Linear birefringence of the retinal nerve fiber layer measured in vitro with a multispectral imaging micropolarimeter." Journal of Biomedical Optics 7(2): 199-204.

Huber, R., M. Wojtkowski, et al. (2005). "Amplified, frequency swept lasers for frequency domain reflectometry and OCT imaging: design and scaling principles." Optics Express 13(9): 3513-3528.

Hunter, D. G., J. C. Sandruck, et al. (1999). "Mathematical modeling of retinal birefringence scanning." Journal of the Optical Society of America a-Optics Image Science and Vision 16(9): 2103-2111.

Hurwitz, H. H. and R. C. Jones (1941). "A new calculus for the treatment of optical systems II. Proof of three general equivalence theorems." Journal of the Optical Society of America 31(7): 493-499.

Huttner, B., C. De Barros, et al. (1999). "Polarization-induced pulse spreading in birefringent optical fibers with zero differential group delay." Optics Letters 24(6): 370-372.

Huttner, B., B. Gisin, et al. (1999). "Distributed PMD measurement with a polarization-OTDR in optical fibers." Journal of Lightwave Technology 17(10): 1843-1848.

Examiner

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2857

Huttner, B., J. Reece, et al. (1998). "Local birefringence measurements in single-mode fibers with coherent optical frequency-domain reflectometry." Ieee Photonics Technology Letters 10(10): 1458-1460.

Hyde, S. C. W., N. P. Barry, et al. (1995). "Sub-100-Mu-M Depth-Resolved Holographic Imaging through Scattering Media in the near-Infrared." Optics Letters 20(22): 2330-2332.

Hyde, S. C. W., N. P. Barry, et al. (1995). "Depth-Resolved Holographic Imaging through Scattering Media by Photorefractive." Optics Letters 20(11): 1331-1333.

Ifimian, N. V., B. E. Bouma, et al. (2004). "Adaptive ranging for optical coherence tomography." Optics Express 12(17): 4025-4034.

Iida, T., N. Hagimura, et al. (2000). "Evaluation of central serous chorioretinopathy with optical coherence tomography." American Journal of Ophthalmology 129(1): 16-20.

Imai, M., H. Iijima, et al. (2001). "Optical coherence tomography of tractional macular elevations in eyes with proliferative diabetic retinopathy. [republished in Am J Ophthalmol. 2001 Sep;132(3):458-61 ; 11530091.J]." American Journal of Ophthalmology 132(1): 81-4.

Indebetouw, G. and P. Klysubun (2000). "Imaging through scattering media with depth resolution by use of low-coherence gating in spatiotemporal digital holography." Optics Letters 25(4): 212-214.

Ip, M. S., B. J. Baker, et al. (2002). "Anatomical outcomes of surgery for idiopathic macular hole as determined by optical coherence tomography." Archives of Ophthalmology 120(1): 29-35.

Ismail, R., V. Tanner, et al. (2002). "Optical coherence tomography imaging of severe commotio retinae and associated macular hole." British Journal of Ophthalmology 86(4): 473-4.

Izatt, J. A., M. R. Hee, et al. (1994). "Optical Coherence Microscopy in Scattering Media." Optics Letters 19(8): 590-592.

Izatt, J. A., M. R. Hee, et al. (1994). "Micrometer-scale resolution imaging of the anterior eye in vivo with optical coherence tomography." Archives of Ophthalmology 112 (12): 1584-9.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
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Filing Date  
July 9, 2004

Group  
2857

Izatt, J. A., M. D. Kulkarni, et al. (1997). "In vivo bidirectional color Doppler flow imaging of picoliter blood volumes using optical coherence tomography." Optics Letters 22(18): 1439-1441.

Izatt, J. A., M. D. Kulkarni, et al. (1996). "Optical coherence tomography and microscopy in gastrointestinal tissues." IEEE Journal of Selected Topics in Quantum Electronics 2(4): 1017.

Jacques, S. L., J. S. Nelson, et al. (1993). "Pulsed Photothermal Radiometry of Port-Wine-Stain Lesions." Applied Optics 32(13): 2439-2446.

Jacques, S. L., J. R. Roman, et al. (2000). "Imaging superficial tissues with polarized light." Lasers in Surgery and Medicine 26(2): 119-129.

Jang, I. K., B. E. Bouma, et al. (2002). "Visualization of coronary atherosclerotic plaques in patients using optical coherence tomography: Comparison with intravascular ultrasound." Journal of the American College of Cardiology 39(4): 604-609.

Jang, I. K., B. D. MacNeill, et al. (2002). "In-vivo characterization of coronary plaques in patients with ST elevation acute myocardial infarction using optical coherence tomography (OCT)." Circulation 106(19): 698-698 3440 Suppl. S.

Jang, I. K., G. J. Tearney, et al. (2000). "Comparison of optical coherence tomography and intravascular ultrasound for detection of coronary plaques with large lipid-core in living patients." Circulation 102(18): 509-509.

Jeng, J. C., A. Bridgeman, et al. (2003). "Laser Doppler imaging determines need for excision and grafting in advance of clinical judgment: a prospective blinded trial." Burns 29(7): 665-670.

Jesser, C. A., S. A. Boppart, et al. (1999). "High resolution imaging of transitional cell carcinoma with optical coherence tomography: feasibility for the evaluation of bladder pathology." British Journal of Radiology 72: 1170-1176.

Johnson, C. A., J. L. Keltner, et al. (2002). "Baseline visual field characteristics in the ocular hypertension treatment study." Ophthalmology 109(3): 432-7.

Jones, R. C. (1941). "A new calculus for the treatment of optical systems III. The Sohncke theory of optical activity." Journal of the Optical Society of America 31 (7): 500-503.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)

Applicant(s)  
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Filing Date  
July 9, 2004

Group  
2857

Jones, R. C. (1941). "A new calculus for the treatment of optical systems I. Description and discussion of the calculus." Journal of the Optical Society of America 31(7): 488-493.

Jones, R. C. (1942). "A new calculus for the treatment of optical systems. IV." Journal of the Optical Society of America 32(8): 486-493.

Jones, R. C. (1947). "A New Calculus for the Treatment of Optical Systems .6. Experimental Determination of the Matrix." Journal of the Optical Society of America 37(2): 110-112.

Jones, R. C. (1947). "A New Calculus for the Treatment of Optical Systems .5. A More General Formulation, and Description of Another Calculus." Journal of the Optical Society of America 37(2): 107-110.

Jones, R. C. (1948). "A New Calculus for the Treatment of Optical Systems .7. Properties of the N-Matrices." Journal of the Optical Society of America 38(8): 671-685.

Jones, R. C. (1956). "New Calculus for the Treatment of Optical Systems .8. Electromagnetic Theory." Journal of the Optical Society of America 46(2): 126-131.

Jopson, R. M., L. E. Nelson, et al. (1999). "Measurement of second-order polarization-mode dispersion vectors in optical fibers." Ieee Photonics Technology Letters 11 (9): 1153-1155.

Jost, B. M., A. V. Sergienko, et al. (1998). "Spatial correlations of spontaneously down-converted photon pairs detected with a single-photon-sensitive CCD camera." Optics Express 3(2): 81-88.

Kaplan, B., E. Compain, et al. (2000). "Phase-modulated Mueller ellipsometry characterization of scattering by latex sphere suspensions." Applied Optics 39 (4): 629-636.

Kass, M. A., D. K. Heuer, et al. (2002). "The Ocular Hypertension Treatment Study: a randomized trial determines that topical ocular hypotensive medication delays or prevents the onset of primary open-angle glaucoma." Archives of Ophthalmology 120(6): 701-13; discussion 829-30.

Kasuga, Y., J. Arai, et al. (2000). "Optical coherence tomography to confirm early closure of macular holes." American Journal of Ophthalmology 130(5): 675-6.

Examiner

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Applicant(s)  
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Filing Date  
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Group  
2857

Kaufman, T., S. N. Lusthaus, et al. (1990). "Deep Partial Skin Thickness Burns - a Reproducible Animal-Model to Study Burn Wound-Healing." Burns 16(1): 13-16.

Kemp, N. J., J. Park, et al. (2005). "High-sensitivity determination of birefringence in turbid media with enhanced polarization-sensitive optical coherence tomography." Journal of the Optical Society of America a-Optics Image Science and Vision 22(3): 552-560.

Kerrigan-Baumrind, L. A., H. A. Quigley, et al. (2000). "Number of ganglion cells in glaucoma eyes compared with threshold visual field tests in the same persons." Investigative Ophthalmology & Visual Science 41(3): 741-8.

Kesen, M. R., G. L. Spaeth, et al. (2002). "The Heidelberg Retina Tomograph vs clinical impression in the diagnosis of glaucoma." American Journal of Ophthalmology 133(5): 613-6.

Kienle, A. and R. Hibst (1995). "A New Optimal Wavelength for Treatment of Port-Wine Stains." Physics in Medicine and Biology 40(10): 1559-1576.

Kienle, A., L. Lilge, et al. (1996). "Spatially resolved absolute diffuse reflectance measurements for noninvasive determination of the optical scattering and absorption coefficients of biological tissue." Applied Optics 35(13): 2304-2314.

Kim, B. Y. and S. S. Choi (1981). "Analysis and Measurement of Birefringence in Single-Mode Fibers Using the Backscattering Method." Optics Letters 6(11): 578-580.

Kimel, S., L. O. Svaasand, et al. (1994). "Differential Vascular-Response to Laser Photothermolysis." Journal of Investigative Dermatology 103(5): 693-700.

Kloppenbergh, F. W. H., G. Beerthuis, et al. (2001). "Perfusion of burn wounds assessed by Laser Doppler Imaging is related to burn depth and healing time." Burns 27(4): 359-363.

Knighton, R. W. and X. R. Huang (2002). "Analytical methods for scanning laser polarimetry." Optics Express 10(21): 1179-1189.

Knighton, R. W., X. R. Huang, et al. (2002). "Analytical model of scanning laser polarimetry for retinal nerve fiber layer assessment." Investigative Ophthalmology & Visual Science 43(2): 383-392.

Examiner

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Group  
2857

Knuettel, A. R. S., Joseph M.; Shay, M.; Knutson, Jay R. (1994). "Stationary low-coherence light imaging and spectroscopy using a CCD camera." Proc. SPIE, Vol. 2135: p. 239-250.

Knuttel, A. and M. Boehlau-Godau (2000). "Spatially confined and temporally resolved refractive index and scattering evaluation in human skin performed with optical coherence tomography." Journal of Biomedical Optics 5(1): 83-92.

Knuttel, A. and J. M. Schmitt (1993). "Stationary Depth-Profiling Reflectometer Based on Low-Coherence Interferometry." Optics Communications 102(3-4): 193-198.

Knuttel, A., J. M. Schmitt, et al. (1994). "Low-Coherence Reflectometry for Stationary Lateral and Depth Profiling with Acoustooptic Deflectors and a Ccd Camera." Optics Letters 19(4): 302-304.

Kobayashi, M., H. Hanafusa, et al. (1991). "Polarization-Independent Interferometric Optical-Time-Domain Reflectometer." Journal of Lightwave Technology 9(5): 623-628.

Kolios, M. C., M. D. Sherar, et al. (1995). "Large Blood-Vessel Cooling in Heated Tissues - a Numerical Study." Physics in Medicine and Biology 40(4): 477-494.

Koozekanani, D., K. Boyer, et al. (2001). "Retinal thickness measurements from optical coherence tomography using a Markov boundary model." Ieee Transactions on Medical Imaging 20(9): 900-916.

Kop, R. H. J. and R. Sprik (1995). "Phase-sensitive interferometry with ultrashort optical pulses." Review of Scientific Instruments 66(12): 5459-5463.

Kramer, R. Z., J. Bella, et al. (1999). "Sequence dependent conformational variations of collagen triple-helical structure." Nature Structural Biology 6(5): 454-7.

Kulkarni, M. D., T. G. van Leeuwen, et al. (1998). "Velocity-estimation accuracy and frame-rate limitations in color Doppler optical coherence tomography." Optics Letters 23(13): 1057-1059.

Kwon, Y. H., C. S. Kim, et al. (2001). "Rate of visual field loss and long-term visual outcome in primary open-angle glaucoma." American Journal of Ophthalmology 132(1): 47-56.

Examiner

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Group  
2857

Kwong, K. F., D. Yankelevich, et al. (1993). "400-Hz Mechanical Scanning Optical Delay-Line." Optics Letters 18(7): 558-560.

Landers, J., I. Goldberg, et al. (2002). "Analysis of risk factors that may be associated with progression from ocular hypertension to primary open angle glaucoma." Clin Experiment Ophthalmology 30(4): 242-7.

Laszlo, A. and A. Venetianer (1998). Heat resistance in mammalian cells: Lessons and challenges. Stress of Life. 851: 169-178.

Laszlo, A. and A. Venetianer (1998). "Heat resistance in mammalian cells: lessons and challenges. [Review] [52 refs]." Annals of the New York Academy of Sciences 851: 169-78.

Laufer, J., R. Simpson, et al. (1998). "Effect of temperature on the optical properties of ex vivo human dermis and subdermis." Physics in Medicine and Biology 43(9): 2479-2489.

Lederer, D. E., J. S. Schuman, et al. (2003). "Analysis of macular volume in normal and glaucomatous eyes using optical coherence tomography." American Journal of Ophthalmology 135(6): 838-843.

Lee, P. P., Z. W. Feldman, et al. (2003). "Longitudinal prevalence of major eye diseases." Archives of Ophthalmology 121(9): 1303-1310.

Lehrer, M. S., T. T. Sun, et al. (1998). "Strategies of epithelial repair: modulation of stem cell and transit amplifying cell proliferation." Journal of Cell Science 111(Pt 19): 2867-75.

Leibowitz, H. M., B. E. Krueger, et al. (1980). "The Framingham Eye Study monograph: An ophthalmological and epidemiological study of cataract, glaucoma, diabetic retinopathy, macular degeneration, and visual acuity in a general population of 2631 adults, 1973-1975." Survey of Ophthalmology 24(Suppl): 335-610.

Leitgeb, R., C. K. Hitzenberger, et al. (2003). "Performance of fourier domain vs. time domain optical coherence tomography." Optics Express 11(8): 889-894.

Leitgeb, R., L. F. Schmetterer, et al. (2002). "Flow velocity measurements by frequency domain short coherence interferometry." Proc. SPIE 4619: 16-21.

Examiner

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Filing Date  
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Group  
2857

Leitgeb, R. A., W. Drexler, et al. (2004). "Ultrahigh resolution Fourier domain optical coherence tomography." Optics Express 12(10): 2156-2165.

Leitgeb, R. A., C. K. Hitzenberger, et al. (2003). "Phase-shifting algorithm to achieve high-speed long-depth-range probing by frequency-domain optical coherence tomography." Optics Letters 28(22): 2201-2203.

Leitgeb, R. A., L. Schmetterer, et al. (2003). "Real-time assessment of retinal blood flow with ultrafast acquisition by color Doppler Fourier domain optical coherence tomography." Optics Express 11(23): 3116-3121.

Leitgeb, R. A., L. Schmetterer, et al. (2004). "Real-time measurement of in vitro flow by Fourier-domain color Doppler optical coherence tomography." Optics Letters 29 (2): 171-173.

LeRoyBrehonnet, F. and B. LeJeune (1997). "Utilization of Mueller matrix formalism to obtain optical targets depolarization and polarization properties." Progress in Quantum Electronics 21(2): 109-151.

Leske, M. C., A. M. Connell, et al. (1999). "Risk factors for open-angle glaucoma. The Barbados Eye Study. [see comments]." Archives of Ophthalmology 113(7): 918-24.

Leske, M. C., A. M. Connell, et al. (2001). "Incidence of open-angle glaucoma: the Barbados Eye Studies. The Barbados Eye Studies Group. [see comments]." Archives of Ophthalmology 119(1): 89-95.

Leske, M. C., A. Heijl, et al. (1999). "Early Manifest Glaucoma Trial. Design and Baseline Data." Ophthalmology 106(11): 2144-2153.

Lewis, S. E., J. R. DeBoer, et al. (2005). "Sensitive, selective, and analytical improvements to a porous silicon gas sensor." Sensors and Actuators B: Chemical 110(1): 54-65.

Lexer, F., C. K. Hitzenberger, et al. (1999). "Dynamic coherent focus OCT with depth- independent transversal resolution." Journal of Modern Optics 46(3): 541-553.

Li, X., C. Chudoba, et al. (2000). "Imaging needle for optical coherence tomography." Optics Letters 25: 1520-1522.

Li, X., T. H. Ko, et al. (2001). "Intraluminal fiber-optic Doppler imaging catheter for structural and functional optical coherence tomography." Optics Letters 26: 1906-1908.

Examiner

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Applicant(s)  
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Filing Date  
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Group  
2857

Liddington, M. I. and P. G. Shakespeare (1996). "Timing of the thermographic assessment of burns." Burns 22(1): 26-8.

Lindmo, T., D. J. Smithies, et al. (1998). "Accuracy and noise in optical Doppler tomography studied by Monte Carlo simulation." Physics in Medicine and Biology 43(10): 3045-3064.

Liu, J., X. Chen, et al. (1999). "New thermal wave aspects on burn evaluation of skin subjected to instantaneous heating." IEEE Transactions on Biomedical Engineering 46(4): 420-8.

Luke, D. G., R. McBride, et al. (1995). "Polarization mode dispersion minimization in fiber-wound piezoelectric cylinders." Optics Letters 20(24): 2550-2552.

MacNeill, B. D., I. K. Jang, et al. (2004). "Focal and multi-focal plaque distributions in patients with macrophage acute and stable presentations of coronary artery disease." Journal of the American College of Cardiology 44(5): 972-979.

Mahgerefteh, D. and C. R. Menyuk (1999). "Effect of first-order PMD compensation on the statistics of pulse broadening in a fiber with randomly varying birefringence." Ieee Photonics Technology Letters 11(3): 340-342.

Maitland, D. J. and J. T. Walsh, Jr. (1997). "Quantitative measurements of linear birefringence during heating of native collagen." Lasers in Surgery & Medicine 20 (3): 310-8.

Majaron, B., S. M. Srinivas, et al. (2000). "Deep coagulation of dermal collagen with repetitive Er : YAG laser irradiation." Lasers in Surgery and Medicine 26(2): 215-222.

Mansuripur, M. (1997). "Effects of High-Numerical-Aperture Focusing on the State of Polarization in Optical and Magneto-optic Data-Storage Systems." Applied Optics 30(22): 3154-3162.

Marshall, G. W., S. J. Marshall, et al. (1997). "The dentin substrate: structure and properties related to bonding." Journal of Dentistry 25(6): 441-458.

Martin, P. (1997). "Wound healing - Aiming for perfect skin regeneration." Science 276 (5309): 75-81.

Martinez, O. E. (1987). "3000 Times Grating Compressor with Positive Group-Velocity Dispersion Application to Fiber Compensation in 1.3-1.6  $\mu$ -M Region." Ieee Journal of Quantum Electronics 23(1): 59-64.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Filing Date  
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Group  
2857

Martinez, O. E., J. P. Gordon, et al. (1984). "Negative Group-Velocity Dispersion Using Refraction." Journal of the Optical Society of America a-Optics Image Science and Vision 1(10): 1003-1006.

McKinney, J. D., M. A. Webster, et al. (2000). "Characterization and imaging in optically scattering media by use of laser speckle and a variable-coherence source." Optics Letters 25(1): 4-6.

Miglior, S., M. Casula, et al. (2001). "Clinical ability of Heidelberg retinal tomograph examination to detect glaucomatous visual field changes." Ophthalmology 108 (9): 1621-7.

Milner, T. E., D. M. Goodman, et al. (1996). "Imaging laser heated subsurface chromophores in biological materials: Determination of lateral physical dimensions." Physics in Medicine and Biology 41(1): 31-44.

Milner, T. E., D. M. Goodman, et al. (1995). "Depth Profiling of Laser-Heated Chromophores in Biological Tissues by Pulsed Photothermal Radiometry." Journal of the Optical Society of America a-Optics Image Science and Vision 12 (7): 1479-1488.

Milner, T. E., D. J. Smithies, et al. (1996). "Depth determination of chromophores in human skin by pulsed photothermal radiometry." Applied Optics 35(19): 3379-3385.

Mishchenko, M. I. and J. W. Hovenier (1995). "Depolarization of Light Backscattered by Randomly Oriented Nonspherical Particles." Optics Letters 20(12): 1356-&.

Mistlberger, A., J. M. Liebmann, et al. (1999). "Heidelberg retina tomography and optical coherence tomography in normal, ocular-hypertensive, and glaucomatous eyes." Ophthalmology 106(10): 2027-32.

Mitsui, T. (1999). "High-speed detection of ballistic photons propagating through suspensions using spectral interferometry." Japanese Journal of Applied Physics Part 1-Regular Papers Short Notes & Review Papers 38(5A): 2978-2982.

Molteno, A. C., N. J. Bosma, et al. (1999). "Otago glaucoma surgery outcome study: long-term results of trabeculectomy--1976 to 1995." Ophthalmology 106(9): 1742-50.

Morgner, U., W. Drexler, et al. (2000). "Spectroscopic optical coherence tomography." Optics Letters 25(2): 111-113.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Group  
2857

		Morgner, U., F. X. Kartner, et al. (1999). "Sub-two-cycle pulses from a Kerr-lens mode-locked Ti : sapphire laser (vol 24, pg 411, 1999)." <u>Optics Letters</u> 24(13): 920-920.
		Mourant, J. R., A. H. Hielscher, et al. (1998). "Evidence of intrinsic differences in the light scattering properties of tumorigenic and nontumorigenic cells." <u>Cancer Cytopathology</u> 84(6): 366-374.
		Muller, M., J. Squier, et al. (1998). "Dispersion pre-compensation of 15 femtosecond optical pulses for high-numerical-aperture objectives." <u>Journal of Microscopy-Oxford</u> 191: 141-150.
		Muscat, S., N. McKay, et al. (2002). "Repeatability and reproducibility of corneal thickness measurements by optical coherence tomography." <u>Investigative Ophthalmology &amp; Visual Science</u> 43(6): 1791-5.
		Musch, D. C., P. R. Lichter, et al. (1999). "The Collaborative Initial Glaucoma Treatment Study. Study Design, Methods, and Baseline Characteristics of Enrolled Patients." <u>Ophthalmology</u> 106: 653-662.
		Neerken, S., Lucassen, G.W., Bisschop, M.A., Lenderink, E., Nuijs, T.A.M. (2004). "Characterization of age-related effects in human skin: A comparative study that applies confocal laser scanning microscopy and optical coherence tomography." <u>Journal of Biomedical Optics</u> 9(2): 274-281.
		Nelson, J. S., K. M. Kelly, et al. (2001). "Imaging blood flow in human port-wine stain in situ and in real time using optical Doppler tomography." <u>Archives of Dermatology</u> 137(6): 741-744.
		Newson, T. P., F. Farahi, et al. (1988). "Combined Interferometric and Polarimetric Fiber Optic Temperature Sensor with a Short Coherence Length Source." <u>Optics Communications</u> 68(3): 161-165.
		November, L. J. (1993). "Recovery of the Matrix Operators in the Similarity and Congruency Transformations - Applications in Polarimetry." <u>Journal of the Optical Society of America a-Optics Image Science and Vision</u> 10(4): 719-739.
		Oh, W. Y., S. H. Yun, et al. (2005). "Wide tuning range wavelength-swept laser with two semiconductor optical amplifiers." <u>Ieee Photonics Technology Letters</u> 17(3): 678- 680.
		Oka, K. and T. Kato (1999). "Spectroscopic polarimetry with a channeled spectrum." <u>Optics Letters</u> 24(21): 1475-1477.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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2857

Okugawa, T. and K. Rotate (1996). "Real-time optical image processing by synthesis of the coherence function using real-time holography." Ieee Photonics Technology Letters 8(2): 257-259.

Oshima, M., R. Torii, et al. (2001). "Finite element simulation of blood flow in the cerebral artery." Computer Methods in Applied Mechanics and Engineering 191 (6-7): 661-671.

Pan, Y. T., H. K. Xie, et al. (2001). "Endoscopic optical coherence tomography based on a microelectromechanical mirror." Optics Letters 26(24): 1966-1968.

Parisi, V., G. Manni, et al. (2001). "Correlation between optical coherence tomography, pattern electroretinogram, and visual evoked potentials in open-angle glaucoma patients." Ophthalmology 108(5): 905-12.

Park, B. H., M. C. Pierce, et al. (2005). "Real-time fiber-based multi-functional spectral-domain optical coherence tomography at 1.3  $\mu$ m." Optics Express 13(11): 3931-3944.

Park, D. H., J. W. Hwang, et al. (1998). "Use of laser Doppler flowmetry for estimation of the depth of burns." Plastic and Reconstructive Surgery 101(6): 1516-1523.

Pendry, J. B., A. J. Holden, et al. (1999). "Magnetism from conductors and enhanced nonlinear phenomena." Ieee Transactions on Microwave Theory and Techniques 47(11): 2075-2084.

Penninckx, D. and V. Morenas (1999). "Jones matrix of polarization mode dispersion." Optics Letters 24(13): 875-877.

Pierce, M. C., M. Shishkov, et al. (2005). "Effects of sample arm motion in endoscopic polarization-sensitive optical coherence tomography." Optics Express 13(15): 5739-5749

Pircher, M., E. Gotzinger, et al. (2003). "Measurement and imaging of water concentration in human cornea with differential absorption optical coherence tomography." Optics Express 11(18): 2190-2197.

Pircher, M., E. Gotzinger, et al. (2003). "Speckle reduction in optical coherence tomography by frequency compounding." Journal of Biomedical Optics 8(3): 565-569.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

Podoleanu, A. G., G. M. Dobre, et al. (1998). "En-face coherence imaging using galvanometer scanner modulation." Optics Letters 23(3): 147-149.

Podoleanu, A. G. and D. A. Jackson (1999). "Noise analysis of a combined optical coherence tomograph and a confocal scanning ophthalmoscope." Applied Optics 38(10): 2116-2127.

Podoleanu, A. G., J. A. Rogers, et al. (2000). "Three dimensional OCT images from retina and skin." Optics Express 7(9): 292-298.

Podoleanu, A. G., M. Seeger, et al. (1998). "Transversal and longitudinal images from the retina of the living eye using low coherence reflectometry." Journal of Biomedical Optics 3(1): 12-20.

Poole, C. D. (1988). "Statistical Treatment of Polarization Dispersion in Single-Mode Fiber." Optics Letters 13(8): 687-689.

Povazay, B., K. Bizheva, et al. (2002). "Submicrometer axial resolution optical coherence tomography." Optics Letters 27(20): 1800-1802.

Qi, B., A. P. Himmer, et al. (2004). "Dynamic focus control in high-speed optical coherence tomography based on a microelectromechanical mirror." Optics Communications 232(1-6): 123-128.

Radhakrishnan, S., A. M. Rollins, et al. (2001). "Real-time optical coherence tomography of the anterior segment at 1310 nm." Archives of Ophthalmology 119(8): 1179-1185.

Rogers, A. J. (1981). "Polarization-Optical Time Domain Reflectometry - a Technique for the Measurement of Field Distributions." Applied Optics 20(6): 1060-1074.

Rollins, A. M. and J. A. Izatt (1999). "Optimal interferometer designs for optical coherence tomography." Optics Letters 24(21): 1484-1486.

Rollins, A. M., R. Ung-arunyawee, et al. (1999). "Real-time in vivo imaging of human gastrointestinal ultrastructure by use of endoscopic optical coherence tomography with a novel efficient interferometer design." Optics Letters 24(19): 1358-1360.

Rollins, A. M., S. Yazdanfar, et al. (2002). "Real-time in vivo colors Doppler optical coherence tomography." Journal of Biomedical Optics 7(1): 123-129.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
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Group  
2857

Rollins, A. M., S. Yazdanfar, et al. (2000). "Imaging of human retinal hemodynamics using color Doppler optical coherence tomography." Investigative Ophthalmology & Visual Science 41(4): S548-S548.

Sandoz, P. (1997). "Wavelet transform as a processing tool in white light interferometry." Optics Letters 22(14): 1065-1067.

Sankaran, V., M. J. Everett, et al. (1999). "Comparison of polarized-light propagation in biological tissue and phantoms." Optics Letters 24(15): 1044-1046.

Sankaran, V., J. T. Walsh, et al. (2000). "Polarized light propagation through tissue phantoms containing densely packed scatterers." Optics Letters 25(4): 239-241.

Sarunic, M. V., M. A. Choma, et al. (2005). "Instantaneous complex conjugate resolved spectral domain and swept-source OCT using 3x3 fiber couplers." Optics Express 13(3): 957-967.

Sathyam, U. S., B. W. Colston, et al. (1999). "Evaluation of optical coherence quantitation of analytes in turbid media by use of two wavelengths." Applied Optics 38(10): 2097-2104.

Schmitt, J. M. (1997). "Array detection for speckle reduction in optical coherence microscopy." Physics in Medicine and Biology 42(7): 1427-1439.

Schmitt, J. M. (1999). "Optical coherence tomography (OCT): A review." Ieee Journal of Selected Topics in Quantum Electronics 5(4): 1205-1215.

Schmitt, J. M. and A. Knüttel (1997). "Model of optical coherence tomography of heterogeneous tissue." Journal of the Optical Society of America a-Optics Image Science and Vision 14(6): 1231-1242.

Schmitt, J. M., S. L. Lee, et al. (1997). "An optical coherence microscope with enhanced resolving power in thick tissue." Optics Communications 142(4-6): 203-207.

Schmitt, J. M., S. H. Xiang, et al. (1998). "Differential absorption imaging with optical coherence tomography." Journal of the Optical Society of America a-Optics Image Science and Vision 15(9): 2288-2296.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
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Filing Date  
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Group  
2857

Schmitt, J. M., S. H. Xiang, et al. (1999). "Speckle in optical coherence tomography." Journal of Biomedical Optics 4(1): 95-105.

Schmitt, J. M., M. J. Yadlowsky, et al. (1995). "Subsurface Imaging of Living Skin with Optical Coherence Microscopy." Dermatology 191(2): 93-98.

Shi, H., J. Finlay, et al. (1997). "Multiwavelength 10-GHz picosecond pulse generation from a single-stripe semiconductor diode laser." Ieee Photonics Technology Letters 9(11): 1439-1441.

Shi, H., I. Nitta, et al. (1999). "Demonstration of phase correlation in multiwavelength mode-locked semiconductor diode lasers." Optics Letters 24(4): 228-240.

Simon, R. (1982). "The Connection between Mueller and Jones Matrices of Polarization Optics." Optics Communications 42(5): 293-297.

Smith, P. J. M., E.M.; Taylor, C.M.; Selyah, D.R.; Day, S.E.; Commander, L.G. "Variable-Focus Microlenses as a Potential Technology for Endoscopy."

Smithies, D. J., T. Lindmo, et al. (1998). "Signal attenuation and localization in optical coherence tomography studied by Monte Carlo simulation." Physics in Medicine and Biology 43(10): 3025-3044.

Sorin, W. V. and D. F. Gray (1992). "Simultaneous Thickness and Group Index Measurement Using Optical Low-Coherence Reflectometry." Ieee Photonics Technology Letters 4(1): 105-107.

Sticker, M., C. K. Hitzenger, et al. (2001). "Quantitative differential phase measurement and imaging in transparent and turbid media by optical coherence tomography." Optics Letters 26(8): 518-520.

Sticker, M., M. Pircher, et al. (2002). "En face imaging of single cell layers by differential phase-contrast optical coherence microscopy." Optics Letters 27(13): 1126-1128.

Stoller, P., B. M. Kim, et al. (2002). "Polarization-dependent optical second-harmonic imaging of a rat-tail tendon." Journal of Biomedical Optics 7(2): 205-214.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

Sun, C. S. (2003). "Multiplexing of fiber-optic acoustic sensors in a Michelson interferometer configuration." Optics Letters 28(12): 1001-1003.

Swanson, E. A., J. A. Izatt, et al. (1993). "In-Vivo Retinal Imaging by Optical Coherence Tomography." Optics Letters 18(21): 1864-1866.

Takada, K., A. Himeno, et al. (1991). "Phase-Noise and Shot-Noise Limited Operations of Low Coherence Optical-Time Domain Reflectometry." Applied Physics Letters 59(20): 2483-2485.

Takenaka, H. (1973). "Unified Formalism for Polarization Optics by Using Group-Theory I (Theory)." Japanese Journal of Applied Physics 12(2): 226-231.

Tanno, N., T. Ichimura, et al. (1994). "Optical Multimode Frequency-Domain Reflectometer." Optics Letters 19(8): 587-589.

Tan-no, N., T. Ichimura, et al. (1994). "Optical Multimode Frequency-Domain Reflectometer." Optics Letters 19(8): 587-589.

Targowski, P., M. Wojtkowski, et al. (2004). "Complex spectral OCT in human eye imaging in vivo." Optics Communications 229(1-6): 79-84.

Tearney, G. J., S. A. Boppart, et al. (1996). "Scanning single-mode fiber optic catheter- endoscope for optical coherence tomography (vol 21, pg 543, 1996)." Optics Letters 21(12): 912-912.

Tearney, G. J., B. E. Bouma, et al. (1996). "Rapid acquisition of in vivo biological images by use of optical coherence tomography." Optics Letters 21(17): 1408-1410.

Tearney, G. J., B. E. Bouma, et al. (1997). "In vivo endoscopic optical biopsy with optical coherence tomography." Science 276(5321): 2037-2039.

Tearney, G. J., M. E. Brezinski, et al. (1996). "Catheter-based optical imaging of a human coronary artery." Circulation 94(11): 3013-3013.

Tearney, G. J., M. E. Brezinski, et al. (1997). "In vivo endoscopic optical biopsy with optical coherence tomography." Science 276(5321): 2037-9.

Examiner

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Group  
2857

Tearney, G. J., M. E. Brezinski, et al. (1997). "Optical biopsy in human gastrointestinal tissue using optical coherence tomography." American Journal of Gastroenterology 92(10): 1800-1804.

Tearney, G. J., M. E. Brezinski, et al. (1995). "Determination of the refractive index of highly scattering human tissue by optical coherence tomography." Optics Letters 20(21): 2258-2260.

Tearney, G. J., I. K. Jang, et al. (2000). "Porcine coronary imaging in vivo by optical coherence tomography." Acta Cardiologica 55(4): 233-237.

Tearney, G. J., R. H. Webb, et al. (1998). "Spectrally encoded confocal microscopy." Optics Letters 23(15): 1152-1154.

Tearney, G. J., H. Yabushita, et al. (2003). "Quantification of macrophage content in atherosclerotic plaques by optical coherence tomography." Circulation 107(1): 113-119.

Tower, T. T. and R. T. Tranquillo (2001). "Alignment maps of tissues: I. Microscopic elliptical polarimetry." Biophysical Journal 81(5): 2954-2963.

Tower, T. T. and R. T. Tranquillo (2001). "Alignment maps of tissues: II. Fast harmonic analysis for imaging." Biophysical Journal 81(5): 2964-2971.

Troy, T. L. and S. N. Thennadil (2001). "Optical properties of human skin in the near infrared wavelength range of 1000 to 2200 nm." Journal of Biomedical Optics 6 (2): 167-176.

Vabre, L., A. Dubois, et al. (2002). "Thermal-light full-field optical coherence tomography." Optics Letters 27(7): 530-532.

Vakhtin, A. B., D. J. Kane, et al. (2003). "Common-path interferometer for frequency-domain optical coherence tomography." Applied Optics 42(34): 6953-6958.

Vakhtin, A. B., K. A. Peterson, et al. (2003). "Differential spectral interferometry: an imaging technique for biomedical applications." Optics Letters 28(15): 1332-1334.

Vakoc, B. J., S. H. Yun, et al. (2005). "Phase-resolved optical frequency domain imaging." Optics Express 13(14): 5483-5493.

Examiner

Date Considered

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Group  
2857

van Leeuwen, T. G., M. D. Kulkarni, et al. (1999). "High-flow-velocity and shear-rate imaging by use of color Doppler optical coherence tomography." Optics Letters 24(22): 1584-1586.

Vansteenkiste, N., P. Vignolo, et al. (1993). "Optical Reversibility Theorems for Polarization - Application to Remote-Control of Polarization." Journal of the Optical Society of America a-Optics Image Science and Vision 10(10): 2240-2245.

Vargas, O., E. K. Chan, et al. (1999). "Use of an agent to reduce scattering in skin." Lasers in Surgery and Medicine 24(2): 133-141.

Wang, R. K. (1999). "Resolution improved optical coherence-gated tomography for imaging through biological tissues." Journal of Modern Optics 46(13): 1905-1912.

Wang, X. J., T. E. Milner, et al. (1997). "Measurement of fluid-flow-velocity profile in turbid media by the use of optical Doppler tomography." Applied Optics 36(1): 144-149.

Wang, X. J., T. E. Milner, et al. (1995). "Characterization of Fluid-Flow Velocity by Optical Doppler Tomography." Optics Letters 20(11): 1337-1339.

Wang, Y. M., J. S. Nelson, et al. (2003). "Optimal wavelength for ultrahigh-resolution optical coherence tomography." Optics Express 11(12): 1411-1417.

Wang, Y. M., Y. H. Zhao, et al. (2003). "Ultrahigh-resolution optical coherence tomography by broadband continuum generation from a photonic crystal fiber." Optics Letters 28(3): 182-184.

Watkins, L. R., S. M. Tan, et al. (1999). "Determination of interferometer phase distributions by use of wavelets." Optics Letters 24(13): 905-907.

Wetzel, J. (2001). "Optical coherence tomography in dermatology: a review." Skin Research and Technology 7(1): 1-9.

Wentworth, R. H. (1989). "Theoretical Noise Performance of Coherence-Multiplexed Interferometric Sensors." Journal of Lightwave Technology 7(6): 941-956.

Westphal, V., A. M. Rollins, et al. (2002). "Correction of geometric and refractive image distortions in optical coherence tomography applying Fermat's principle." Optics Express 10(9): 397-404.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
Johannes F. de Boer

Filing Date  
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Group  
2857

Westphal, V., S. Yazdanfar, et al. (2002). "Real-time, high velocity-resolution color Doppler optical coherence tomography." Optics Letters 27(1): 34-36.

Williams, P. A. (1999). "Rotating-wave-plate Stokes polarimeter for differential group delay measurements of polarization-mode dispersion." Applied Optics 38(31): 6508-6515.

Wojtkowski, M., T. Bajraszewski, et al. (2003). "Real-time in vivo imaging by high-speed spectral optical coherence tomography." Optics Letters 28(19): 1745-1747.

Wojtkowski, M., A. Kowalczyk, et al. (2002). "Full range complex spectral optical coherence tomography technique in eye imaging." Optics Letters 27(16): 1415-1417.

Wojtkowski, M., R. Leitgeb, et al. (2002). "In vivo human retinal imaging by Fourier domain optical coherence tomography." Journal of Biomedical Optics 7(3): 457-463.

Wojtkowski, M., R. Leitgeb, et al. (2002). "Fourier domain OCT imaging of the human eye in vivo." Proc. SPIE 4619: 230-236.

Wojtkowski, M., V. J. Srinivasan, et al. (2004). "Ultrahigh-resolution, high-speed, Fourier domain optical coherence tomography and methods for dispersion compensation." Optics Express 12(11): 2404-2422.

Wong, B. J. F., Y. H. Zhao, et al. (2004). "Imaging the internal structure of the rat cochlea using optical coherence tomography at 0.827  $\mu\text{m}$  and 1.3  $\mu\text{m}$ ." Otolaryngology-Head and Neck Surgery 130(3): 334-338.

Yabushita, H. B., B. E.; Houser, S.L.; Aretz, H.T.; Jang, I.; Schlendorf, K.H.; Kauffman, C.R.; Shishkov, M.; Halpern, E.F.; Tearney, G.J. "Measurement of Thin Fibrous Caps in Atherosclerotic Plaques by Optical Coherence Tomography."

Yang, C., A. Wax, et al. (2001). "Phase-dispersion optical tomography." Optics Letters 26(10): 686-688.

Yang, C., A. Wax, et al. (2001). "Phase-referenced interferometer with subwavelength and subhertz sensitivity applied to the study of cell membrane dynamics." Optics Letters 26(16): 1271-1273.

Yang, C. H., A. Wax, et al. (2001). "Phase-dispersion optical tomography." Optics Letters 26(10): 686-688.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant(s)  
Johannes F. de Boer

Filing Date  
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Group  
2857

		Yang, C. H., A. Wax, et al. (2000). "Interferometric phase-dispersion microscopy." <u>Optics Letters</u> 25(20): 1526-1528.
		Yang, V. X. D., M. L. Gordon, et al. (2002). "Improved phase-resolved optical Doppler tomography using the Kasai velocity estimator and histogram segmentation." <u>Optics Communications</u> 208(4-6): 209-214.
		Yang, V. X. D., M. L. Gordon, et al. (2003). "High speed, wide velocity dynamic range Doppler optical coherence tomography (Part I): System design, signal processing, and performance." <u>Optics Express</u> 11(7): 794-809.
		Yang, V. X. D., M. L. Gordon, et al. (2003). "High speed, wide velocity dynamic range Doppler optical coherence tomography (Part II): Imaging in vivo cardiac dynamics of <i>Xenopus laevis</i> ." <u>Optics Express</u> 11(14): 1650-1658.
		Yang, V. X. D., M. L. Gordon, et al. (2003). "High speed, wide velocity dynamic range Doppler optical coherence tomography (Part III): in vivo endoscopic imaging of blood flow in the rat and human gastrointestinal tracts." <u>Optics Express</u> 11(19): 2416-2424.
		Yang, V. X. D., B. Qi, et al. (2003). "In vivo feasibility of endoscopic catheter-based Doppler optical coherence tomography." <u>Gastroenterology</u> 124(4): A49-A50.
		Yao, G. and L. H. V. Wang (2000). "Theoretical and experimental studies of ultrasound-modulated optical tomography in biological tissue." <u>Applied Optics</u> 39(4): 659-664.
		Yazdanfar, S. and J. A. Izatt (2002). "Self-referenced Doppler optical coherence tomography." <u>Optics Letters</u> 27(23): 2085-2087.
		Yazdanfar, S., M. D. Kulkarni, et al. (1997). "High resolution imaging of in vivo cardiac dynamics using color Doppler optical coherence tomography." <u>Optics Express</u> 1 (13) : 424-431.
		Yazdanfar, S., A. M. Rollins, et al. (2000). "Imaging and velocimetry of the human retinal circulation with color Doppler optical coherence tomography." <u>Optics Letters</u> 25(19): 1448-1450.
		Yazdanfar, S., A. M. Rollins, et al. (2000). "Noninvasive imaging and velocimetry of human retinal blood flow using color Doppler optical coherence tomography." <u>Investigative Ophthalmology &amp; Visual Science</u> 41(4): S548-S548.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Group  
2857

Yazdanfar, S., A. M. Rollins, et al. (2003). "In vivo imaging of human retinal flow dynamics by color Doppler optical coherence tomography." Archives of Ophthalmology 121(2): 235-239.

Yazdanfar, S., C. H. Yang, et al. (2005). "Frequency estimation precision in Doppler optical coherence tomography using the Cramer-Rao lower bound." Optics Express 13(2): 410-416.

Yun, S. H., C. Boudoux, et al. (2004). "Extended-cavity semiconductor wavelength-swept laser for biomedical imaging." IEEE Photonics Technology Letters 16(1): 293-295.

Yun, S. H., C. Boudoux, et al. (2003). "High-speed wavelength-swept semiconductor laser with a polygon-scanner-based wavelength filter." Optics Letters 28(20): 1981-1983.

Yun, S. H., G. J. Tearney, et al. (2004). "Pulsed source and swept-source spectral-domain optical coherence tomography with reduced motion artifacts." Optics Express 12(23): 5614-5624.

Yun, S. H., G. J. Tearney, et al. (2004). "Removing the depth-degeneracy in optical frequency domain imaging with frequency shifting." Optics Express 12(20): 4822-4828.

Yun, S. H., G. J. Tearney, et al. (2004). "Motion artifacts in optical coherence tomography with frequency-domain ranging." Optics Express 12(13): 2977-2998.

Zhang, J., J. S. Nelson, et al. (2005). "Removal of a mirror image and enhancement of the signal-to-noise ratio in Fourier-domain optical coherence tomography using an electro-optic phase modulator." Optics Letters 30(2): 147-149.

Zhang, Y., M. Sato, et al. (2001). "Numerical investigations of optimal synthesis of several low coherence sources for resolution improvement." Optics Communications 192(3-6): 183-192.

Zhang, Y., M. Sato, et al. (2001). "Resolution improvement in optical coherence tomography by optimal synthesis of light-emitting diodes." Optics Letters 26(4): 205-207.

Zhao, Y., Z. Chen, et al. (2002). "Real-time phase-resolved functional optical coherence tomography by use of optical Hilbert transformation." Optics Letters 27(2): 98-100.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Johannes F. de Boer

Filing Date  
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Group  
2857

Zhao, Y. H., Z. P. Chen, et al. (2000). "Doppler standard deviation imaging for clinical monitoring of in vivo human skin blood flow." Optics Letters 25(18): 1358-1360.

Zhao, Y. H., Z. P. Chen, et al. (2000). "Phase-resolved optical coherence tomography and optical Doppler tomography for imaging blood flow in human skin with fast scanning speed and high velocity sensitivity." Optics Letters 25(2): 114-116.

Zhou, D., P. R. Prucnal, et al. (1998). "A widely tunable narrow linewidth semiconductor fiber ring laser." IEEE Photonics Technology Letters 10(6): 781-783.

Zuluaga, A. F. and R. Richards-Kortum (1999). "Spatially resolved spectral interferometry for determination of subsurface structure." Optics Letters 24(8): 519-521.

Zvyagin, A. V., J. B. FitzGerald, et al. (2000). "Real-time detection technique for Doppler optical coherence tomography." Optics Letters 25(22): 1645-1647.

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Examiner

Date Considered

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Atty. Docket No.  
036115/US/2 - 475387-  
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Serial No.  
10/501,276

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Applicant(s)  
Johannes F. de Boer

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July 9, 2004

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2857

## U.S. PATENT DOCUMENTS

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
	5 4 9 1 5 2 4	February 13, 1996	Hellmuth et al.			
	6 6 8 0 7 8 0	January 20, 2004	Fee			
2003	0 1 3 5 1 0 1	July 17, 2003	Weble			
	6 9 8 0 2 9 9	December 27, 2005	de Boer			
	6 1 6 6 3 7 3	December 26, 2000	Mao			
	6 4 6 9 8 4 6	October 22, 2002	Ebizuka et al.			
	5 6 2 3 3 3 6	April 22, 1997	Raab et al.			
	5 2 6 2 6 4 4	November 16, 1993	Maguire			
	5 1 2 7 7 3 0	July 7, 1992	Brelje et al.			
	5 2 4 8 8 7 6	September 28, 1993	Kerstens et al.			
	5 3 0 4 8 1 0	April 19, 1994	Amos			
	5 4 5 0 2 0 3	September 12, 1995	Penkethman			
	5 4 5 9 3 2 5	October 17, 1995	Hueton et al.			
	5 5 2 6 3 3 8	June 11, 1996	Hasman et al.			
	5 6 0 0 4 8 6	February 4, 1997	Gal et al.			
	5 6 9 8 3 5 7	December 16, 1997	Zarling et al.			
	5 7 8 5 6 5 1	July 28, 1998	Kuhn et al.			
	5 8 8 7 0 0 9	March 23, 1999	Mandella et al.			
	5 0 4 5 9 3 6	September 3, 1991	Lobb et al.			
	5 2 9 1 8 8 5	March 8, 1994	Taniji et al.			
	5 2 9 3 8 7 3	March 15, 1994	Fang			
	5 0 6 5 3 3 1	November 1991	Vachon et al.			
2001	0 0 4 7 1 3 7	November 2001	Moreno et al.			
2002	0 0 1 6 5 3 3	February 7, 2002	Marchitto et al.			

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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2857

		6	8	1	6	7	4	3	November 9, 2004	Moreno et al.			
		6	3	2	4	4	1	9	November 27, 2001	Guzelsu et al.			
		6	5	6	4	0	8	9	May 13, 2003	Izatt et al.			
		6	1	9	8	9	5	6	March 6, 2001	Dunne, Shang			
		5	7	3	5	2	7	6	April 7, 1998	Lemelson, Jerome			

## FOREIGN PATENT DOCUMENT

Document No.									Date	Country	Class	SubClass	Translator Yes No	
0	4	1	0	5	5	9	8		December 9, 2004	WIPO				

## OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)

		Marc Nikles et al., "Brillouin gain spectrum characterization in single-mode optical fibers", <u>Journal of Lightwave Technology</u> 1997, 15 (10): 1842-1851.
		Tsuyoshi Sonehara et al., "Forced Brillouin Spectroscopy Using Frequency-Tunable Continuous-Wave Lasers", <u>Physical Review Letters</u> 1995, 75 (23): 4234-4237.
		Hajime Tanaka et al., "New Method of Superheterodyne Light Beating Spectroscopy for Brillouin-Scattering Using Frequency-Tunable Lasers", <u>Physical Review Letters</u> 1995, 74 (9): 1609-1612.
		Webb RH et al. "Confocal Scanning Laser Ophthalmoscope", <u>Applied Optics</u> 1987, 26 (8): 1492-1499.
		Andreas Zumbusch et al. "Three-dimensional vibrational imaging by coherent anti-Stokes Raman scattering", <u>Physical Review Letters</u> 1999, 82 (20): 4142-4145.
		Katrin Kneipp et al., "Single molecule detection using surface-enhanced Raman scattering (SERS)", <u>Physical Review Letters</u> 1997, 78 (9): 1667-1670.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Form PTO-1449 U.S. Department of Commerce  
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(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

		K.J. Koski et al., "Brillouin imaging" <u>Applied Physics Letters</u> 87, 2005.
		Boas et al., "Diffusing temporal light correlation for burn diagnosis", <u>SPIE</u> , 1999, 2979:468-477.
		David J. Briers, "Speckle fluctuations and biomedical optics: implications and applications", <u>Optical Engineering</u> , 1993, 32(2):277-283.
		Clark et al., "Tracking Speckle Patterns with Optical Correlation", <u>SPIE</u> , 1992, 1772:77-87.
		Facchini et al., "An endoscopic system for DSPI", <u>Optik</u> , 1993, 95(1):27-30.
		Hrabovsky, M., "Theory of speckle displacement and decorrelation: application in mechanics", <u>SPIE</u> , 1998, 3479:345-354.
		Sean J. Kirkpatrick et al., "Micromechanical behavior of cortical bone as inferred from laser speckle data", <u>Journal of Biomedical Materials Research</u> , 1998, 39(3):373-379.
		Sean J. Kirkpatrick et al., "Laser speckle microstrain measurements in vascular tissue", <u>SPIE</u> , 1999, 3598:121-129.
		Loree et al., "Mechanical Properties of Model Atherosclerotic Lesion Lipid Pools", <u>Arteriosclerosis and Thrombosis</u> , 1994, 14(2):230-234.
		Podbielska, H. "Interferometric Methods and Biomedical Research", <u>SPIE</u> , 1999, 2732:134-141.
		Richards-Kortum et al., "Spectral diagnosis of atherosclerosis using an optical fiber laser catheter", <u>American Heart Journal</u> , 1989, 118(2):381-391.
		Ruth, B. "blood flow determination by the laser speckle method", <u>Int J Microcirc: Clin Exp</u> , 1990, 9:21-45.
		Shapo et al., "Intravascular strain imaging: Experiments on an Inhomogeneous Phantom", <u>IEEE Ultrasonics Symposium</u> 1996, 2:1177-1180.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
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Serial No.  
10/501,276

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

Shapo et al., "Ultrasonic displacement and strain imaging of coronary arteries with a catheter array", IEEE Ultrasonics Symposium 1995, 2:1511-1514.

Thompson et al., "Imaging in scattering media by use of laser speckle", Opt. Soc. Am. A., 1997, 14(9):2269-2277.

Thompson et al., "Diffusive media characterization with laser speckle", Applied Optics, 1997, 36(16):3726-3734.

Tuchin, Valery V., "Coherent Optical Techniques for the Analysis of Tissue Structure and Dynamics", Journal of Biomedical Optics, 1999, 4(1):106-124.

M. Wussling et al., "Laser diffraction and speckling studies in skeletal and heart muscle", Biomed. Biochim. Acta, 1986, 45(1/2):S 23- S 27.

T. Yoshimura et al., "Statistical properties of dynamic speckles", J. Opt. Soc. Am A. 1986, 3(7):1032-1054

Zimnyakov et al., "Spatial speckle correlometry in applications to tissue structure monitoring", Applied Optics 1997, 36(22): 5594-5607.

Zimnyakov et al., "A study of statistical properties of partially developed speckle fields as applied to the diagnosis of structural changes in human skin", Optics and Spectroscopy, 1994, 76(5): 747-753.

Zimnyakov et al., "Speckle patterns polarization analysis as an approach to turbid tissue structure monitoring", SPIE 1999, 2981:172-180.

Ramasamy Manoharan et al., "Biochemical analysis and mapping of atherosclerotic human artery using FT-IR microspectroscopy", Atherosclerosis, May 1993, 181-1930.

M.V. Salunke et al., "Biomechanics of Atherosclerotic Plaque" Critical Reviews™ in Biomedical Engineering 1997, 25(3):243-285.

4812-0495-0784\1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

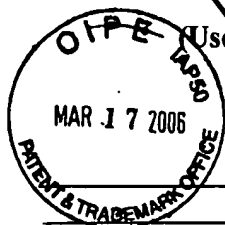
Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

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036115/US/2 - 475387-  
00016

Serial No.  
10/501,276

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use several sheets if necessary)



Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

## **U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.	Date	Name	Cl as s	Subclass	Filing Date if Appropriate
	6 5 5 8 3 2 4	May 6, 2003	Von Behren et al. **			
	5 9 4 9 9 2 9	September 7,	Hamm **			
	6 3 5 3 6 9 3	March 5, 2002	Kano et al. **			
	5 0 3 9 1 9 3	August 13, 1991	Snow et al. **			

## **FOREIGN PATENT DOCUMENT**

Document No.	Date	Country	Class	SubClass	Translator Yes No
0 2 3 6 0 1 5	May 10, 2002	WIPO **			

\*\* References cited in International Search Report

## **OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

	D. Fu et al., "Non-invasive quantitative reconstruction of tissue elasticity using an iterative forward approach", Phys. Med. Biol. 2000 (45): 1495-1509. **
	S.B. Adams Jr. et al., "The use of polarization sensitive optical coherence tomography and elastography to assess connective tissue", Optical Soc. of American Washington 2002, Page 3 **
	International Search Report for International Patent application No. PCT/US2005/039740.
	International Written Opinion for International Patent application No. PCT/US2005/039740.
	International Search Report for International Patent application No. PCT/US2005/030294.

4814-2482-4832\1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

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Group  
2857

**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
2002	0 1 2 2 2 4 6	September 5, 2002	Tearney et al. **			
	6 6 8 7 0 1 0	February 2004	Horii et al.			
	4 5 8 5 3 4 9	April 29, 1986	Gross et al.			
	5 8 1 7 1 4 4	October 6, 1998	Gregory			
	5 8 4 3 0 0 0	December 1, 1998	Nishioka et al.			
	6 0 5 3 6 1 3	April 25, 2000	Wei et al.			
	6 0 0 4 3 1 4	December 21,	Wei et al.			
	4 2 9 5 7 3 8	October 20, 1981	Meltz et al. **			
	4 3 0 0 8 1 6	November 17,	Snitzer et al. **			
	4 7 7 0 4 9 2	September 13, 1988	Levin et al. **			

**FOREIGN PATENT DOCUMENT**

Document No.	Date	Country	Class	SubClass	Translator Yes No
0 2 3 8 0 4 0	May 16, 2002	WIPO**			
1 4 2 6 7 9 9	June 9, 2004	European **			
1 9 5 4 2 9 5 5	May 22, 1997	Germany **			
0 3 0 6 2 8 0 2	July 31, 2003	WIPO**			
9 5 3 3 9 7 1	December 14, 1995	WIPO**			

\*\* References cited in International Search Report

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**

International Written Opinion for International Patent application No. PCT/US2005/043951.

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark Office

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36115/US/2 - 475387-00016

Serial No.  
10/501,276

**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)

Applicant(s)  
Johannes F. de Boer

Filing Date  
July 9, 2004

Group  
2857

International Search Report for International Patent application No. PCT/US2005/043951.

Erdelyi et al., "Generation of diffraction-free beams for applications in optical microlithography", J. Vac. Sci. Technol. B 15 (12), Mar/Apr 1997, Pages 287-292.

International Search Report for International Patent application No. PCT/US2005/023664.

International Written Opinion for International Patent application No. PCT/US2005/023664.

Tearney et al., "Spectrally encoded miniature endoscopy" Optical Society of America; Optical Letters Vol. 27, No. 6, March 15, 2002; pages 412-414

Yelin et al., "Double-clad Fiber for Endoscopy" Optical Society of America; Optical Letters Vol. 29, No. 20, October 16, 2005; pages 2408-2410

International Search Report for International Patent application No. PCT/US2001/049704.

International Search Report for International Patent application No. PCT/US2004/039454.

International Written Opinion for International Patent application No. PCT/US2004/039454.

PCT International Preliminary Report on Patentability for International Application No. PCT/US2004/038404 dated June 2, 2006

4829-7823-7441\1

Examiner

Date Considered

\* Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 U.S. Department of Commerce  
(REV. 2-82) Patent and Trademark OfficeAtty. Docket No.  
036115/US/2 - 475387-  
00016Serial No.  
10/501,276**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**  
(Use several sheets if necessary)Applicant(s)  
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June 9, 2004Group  
2857**U.S. PATENT DOCUMENTS**

*Exam. Init.	Document No.	Date	Name	Class	Subclass	Filing Date if Appropriate
2004	0 1 5 0 8 2 9	August 5, 2004	Koch et al.			
	5 3 0 5 7 5 9	April 26, 1994	Kaneko et al.***			
	6 2 6 3 2 3 4	July 17, 2001	Engelhardt et al.***			

**FOREIGN PATENT DOCUMENT**

Document No.	Date	Country	Class	SubClass	Translator Yes No
9 8 1 4 1 3 2	April 9, 1998	WIPO***			
9 8 4 8 8 3 8	November 5, 1998	WIPO***			
4 1 3 5 5 5 0	May 11, 1992	Japan ***			
4 1 3 5 5 5 1	May 11, 1992	Japan ***			

\*\*\* References cited in Japanese Patent Application No. 2002-538830

**OTHER DOCUMENTS (including Author, Title Date, Pertinent Pages, Etc.)**Notice of Reasons for Rejection and English translation for Japanese Patent Application No.  
2002-538830

4834-2382-1825\1

Examiner

Date Considered

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